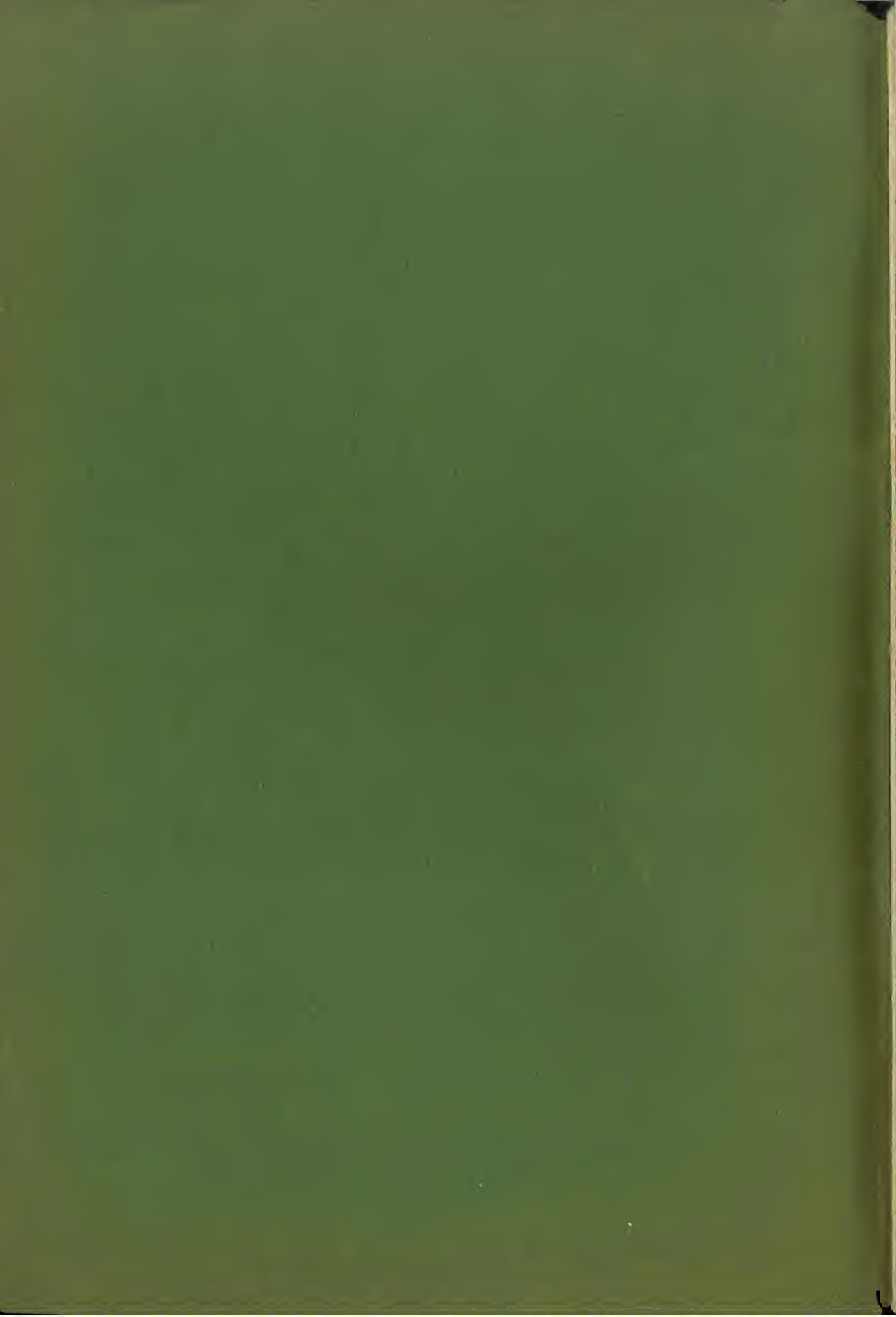




CATALOGUE NO. 24

SECOND EDITION







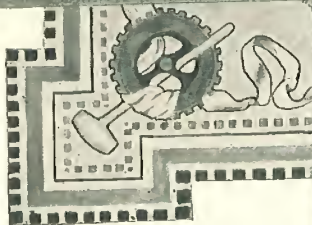
SECTION OF GENERAL OFFICES



LADDER & WOOD WORK DEPT.



SECTION OF MACHINE SHOP



STEEL DEPT.

VIEW  
  
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 NEW FIRE P



OFFICE OF THE PRES. & SEC.



SHIPPING ROOM

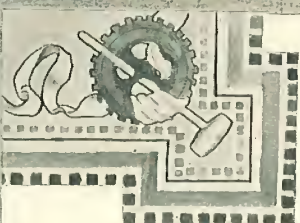
# WS OF LLITH G.CO. ROOF PLANT



SECTION OF MACHINE SHOP



SOME OF THE MEN WHO HAVE HELPED TO MAKE "ALLITH" FAMOUS



Allith Hardware is Reliable Hardware



Reliable Hardware is Allith Hardware



**Allith Manufacturing Company, Chicago, U. S. A.**

# Allith Manufacturing Company

THE ORIGINAL ROUND TRACK  
HARDWARE MANUFACTURERS

*General Offices and Factory*

**Taylor Street and Forty-Third Avenue  
CHICAGO, U. S. A.**

TELEPHONE KEDZIE 2000

CABLE ADDRESS  
"ALLITH" CHICAGO

CODES USED  
Western Union and A. B. C. 5th Edition

**CATALOGUE NO. 24**

## *Branch Offices and Warehouses*

BOSTON - - 144 High Street  
NEW YORK - - 244 Water Street  
PHILADELPHIA - 521 Commerce Street  
DENVER - 1520 Arapahoe Street  
SAN FRANCISCO 787-793 Brannan Street  
LOS ANGELES - Sixth and Main Streets

## *Distributors*

WM. FRANKFURTH HARDWARE COMPANY - - - MILWAUKEE  
For Southern Wisconsin and Northeastern Iowa

MARSHALL-WELLS HARDWARE COMPANY - - - DULUTH  
For Northern Michigan, Northern Wisconsin, Minnesota, North Dakota,  
South Dakota and Montana

MARSHALL-WELLS HARDWARE COMPANY - PORTLAND and SPOKANE  
For Oregon, Washington and Idaho

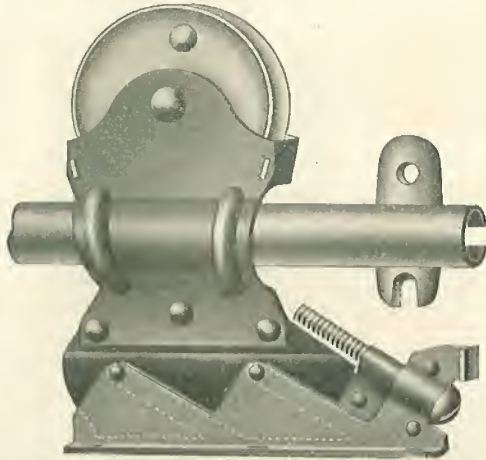
RICHARDS & CONOVER HARDWARE COMPANY - - KANSAS CITY  
For Kansas and Western Oklahoma



Allith Manufacturing Company, Chicago, U. S. A.

## Reliable House Door Hangers

Nos. 12M (Malleable) and 12S (Steel) with Track No. 1H



**SIMPLE-EFFICIENT-DURABLE-NOISELESS-FRICTIONLESS**  
The Most Popular Outfit With Leading Architects and Builders

This hanger is an improvement in house door hangers.

The hanger proper and the plate for attaching to the door are supplied in either malleable iron or high carbon wrought steel, as desired.

The adjusting screw has an extra long bearing in the frame of hanger, making a very strong and positive adjustment, easily regulated without removing door casing.

The wheel is brass bushed,  $3\frac{1}{4}$  inches in diameter, steel cased with hard fibre tread, making it absolutely noiseless.

The track is our No. 1 round steel track with malleable iron supports, fitting tightly inside of the track.

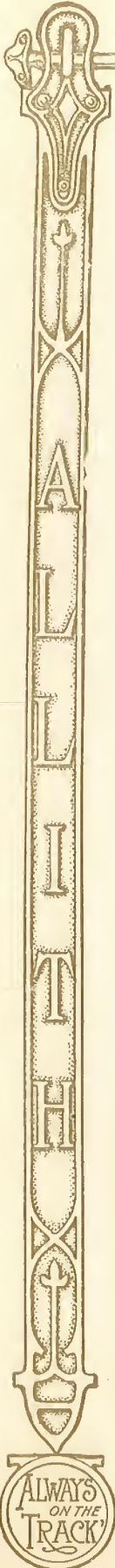
Each half or full set is packed in a wooden box complete with hangers, track supports and screws. Track shipped in bundles.

Nos. Weights Prices

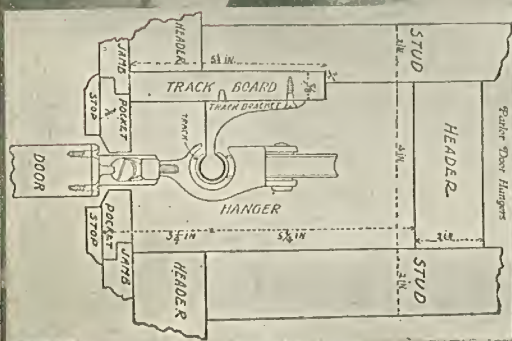
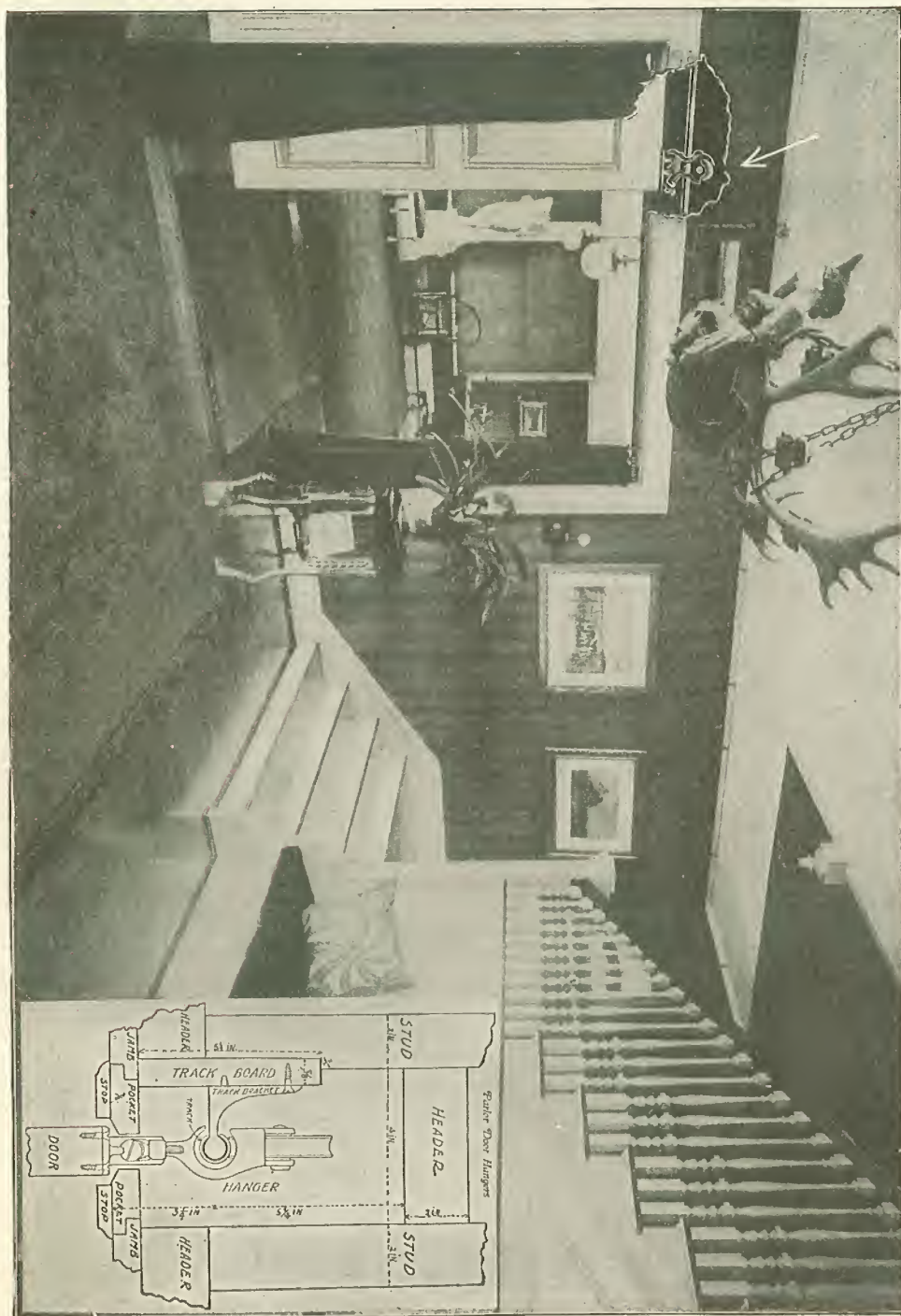
40M—Half set Malleable Hangers No. 12M for single door with 8-foot track No. 1H complete, each .....	12	lbs.	\$2.50
40S—Half set Steel Hangers No. 12S for single door with 8-foot track No. 1H complete, each .....	10 $\frac{3}{4}$	lbs.	2.50
70M—Full set Malleable Hangers No. 12M for double doors with 14-foot track No. 1H complete, each .....	23 $\frac{1}{4}$	lbs.	5.00
70S—Full set Steel Hangers No. 12S for double doors with 14-foot track No. 1H complete, each .....	20 $\frac{3}{4}$	lbs.	5.00

### HOUSE DOOR HARDWARE PARTS

12M—House Door Hangers, per pair.....	4 $\frac{1}{2}$	lbs.	\$1.60
12S—House Door Hangers, per pair.....	3 $\frac{1}{4}$	lbs.	1.60
1H—House Door Track, without supports, per 100 feet .....	63 $\frac{1}{2}$	lbs.	9.24
1HC—Center Supports for No. 1H track, per 100....	24	lbs.	4.00
1HE—End Supports for No. 1H track, per 100.....	38	lbs.	4.00
38—Center Bumper, each .....	2-5	lb.	.40
39—Floor Guide, each .....	1-10	lb.	.20



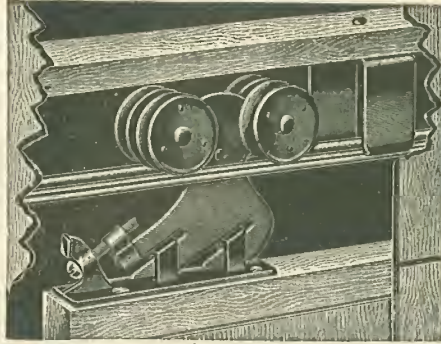
Allith Manufacturing Company, Chicago, U. S. A.



Allith Manufacturing Company, Chicago, U. S. A.

## Reliable House Door Hanger No. 11

With Adjustable Track No. 11H



In putting this adjustable track on the market, we are meeting the needs of a high-class article at a moderate price. The adjustable apparatus is simple to install, never gets out of order, and is made throughout with the same high-class workmanship that has made our entire line of sliding door hardware so universally successful. This outfit combines all the advantages of all others. Requires only a very small size pocket.

Both the hangers and the track can be readily adjusted at any time so that they are not affected by sagging or warping of walls, floors or doors. The adjusting screws cannot work loose.

The hanger has ball-bearing wheels, steel cased with hard fibre tread, which, running on our double tubular enameled track, are absolutely noiseless and anti-friction.

As adjustable track is not desirable for heavy doors, we do not manufacture our No. 11H track in greater lengths than seven feet, and for doors exceeding three and a half feet wide we recommend our rigid track No. 1H with No. 12M hangers (pages 6-7).

HALF SETS FOR SINGLE DOORS			FULL SETS FOR DOUBLE DOORS		
No.	Opening	Each	No.	Opening	Each
12½	2½ feet wide.....	\$3.50	24	4 feet wide.....	\$7.00
13	3 feet wide.....	3.50	24½	4½ feet wide.....	7.00
13½	3½ feet wide.....	3.75	25	5 feet wide.....	7.00
			25½	5½ feet wide.....	7.00
			26	6 feet wide.....	7.00
			26½	6½ feet wide.....	7.25
			27	7 feet wide.....	7.50

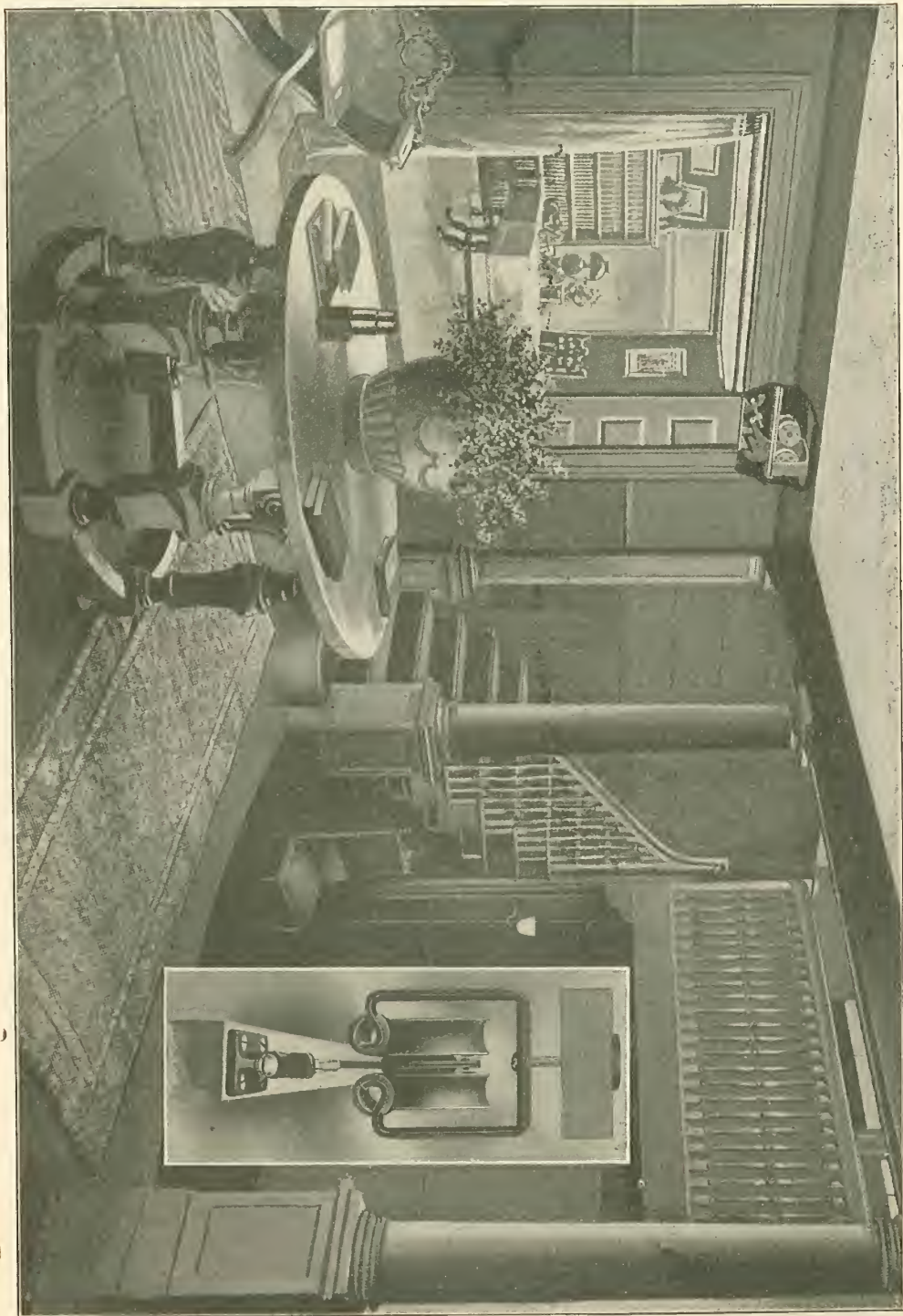
Each half or full set hangers is packed in a wooden box.

### HOUSE DOOR HARDWARE PARTS

Nos.		Weights	Prices
11	House Door Hangers, per pair.....	5 lbs.	\$ 2.00
11H	House Door Track with supports and header, per 100 feet .....	300 lbs.	40.00
11HC	Supports for No. 11H track, per 100.....	100 lbs.	25.00
38	Center Bumper, each .....	2-5 lb.	.40
39	Floor Guide, each .....	1-10 lb.	.20



Allith Manufacturing Company, Chicago, U. S. A.



ALWAYS  
ON THE  
TRACK

ALWAYS  
ON THE  
TRACK

**Allith Manufacturing Company, Chicago, U. S. A.**

## **Reliable Swivel Hanger No. 19**

**With Track No. 11F**

**For Folding and Sliding or Accordion Doors for Store Fronts  
and Large Openings in Churches, School Houses,  
Public Buildings, Etc.**

This equipment is noiseless, easy running and the most satisfactory outfit made for such doors.

The hanger is fitted with ball bearing wheels and swivel. The wheels are steel cased with hard fibre tread, 2 inches in diameter. The track is our double No. 1 with special supports.

Nos.	Weights	Prices
19—Swivel Hanger, each.....	1½ lbs.	\$ 3.00
11F—Swivel Hanger Track with supports and header, per 100 feet.....	300 lbs.	40.00
11FC—Supports for No. 11F track, per 100.....	100 lbs.	25.00

Track must be of same length as width of opening.

One hanger only is required for each door except the half-doors; and in case of light doors, for every other door only.

Any number of doors may be used, beginning with a half-door hinged with loose pin butts to strip attached to jamb at one or both sides of opening. The half-door must be exactly one-half the width of the full-size door, less the distance from center of jamb strip to center of butt pins. The full-size doors must all be of the same width, top and bottom, with edges parallel.

The distance between the top of the doors and the top of the header supplied with the track must be between 6½ and 8¾ inches.

### **DIRECTIONS FOR APPLYING.**

1. Place hangers on track.
2. Erect track, attaching same securely.
3. Hinge the doors together, fold them, and strike a center line across them all.
4. Attach hanger plates to doors on the center of this line at the exact centers of the doors.

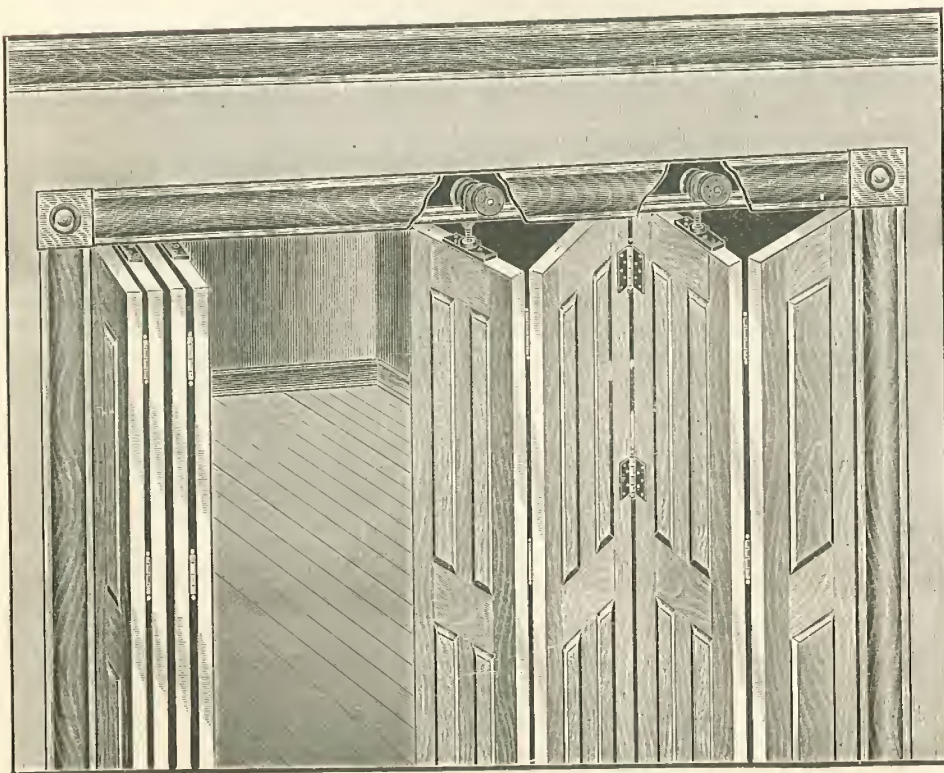
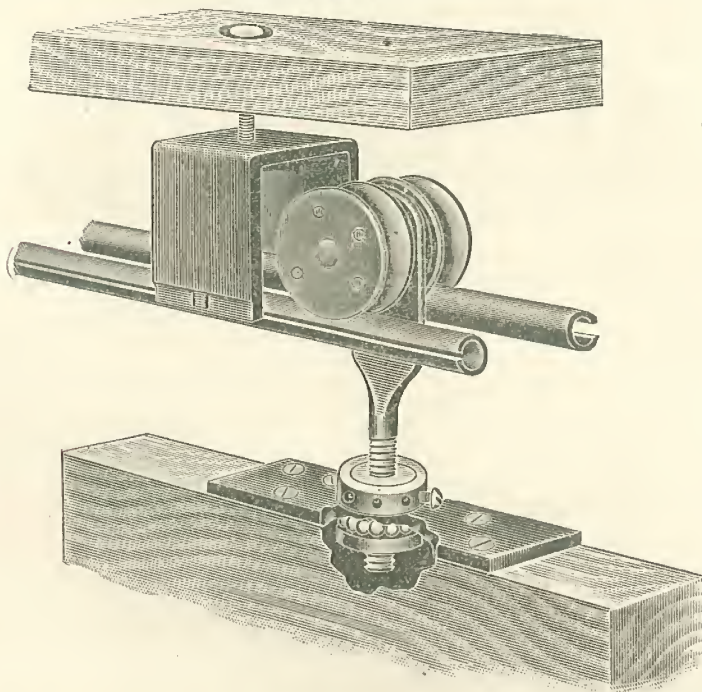
NOTICE—If track is in two or more sections, erect all sections except one, attach all hangers to doors, slide all doors on track already erected, and then erect remaining section of track.



Allith Manufacturing Company, Chicago, U. S. A.

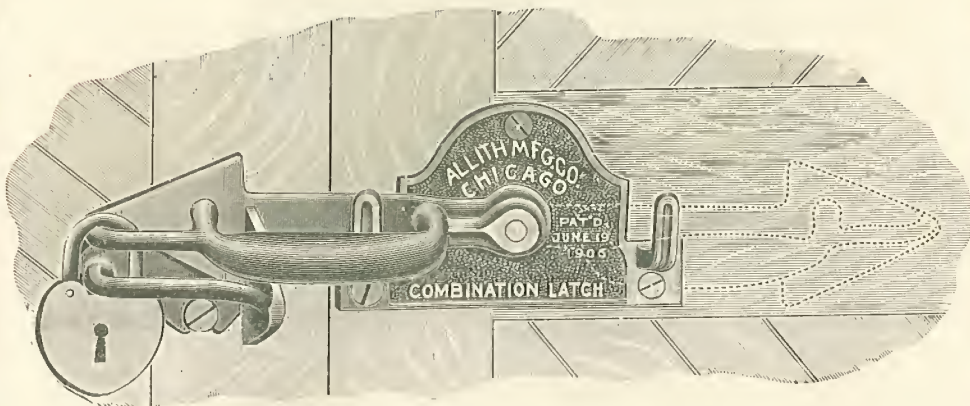
## Reliable Swivel Hanger No. 19

With Track No. 11F



**Allith Manufacturing Company, Chicago, U. S. A.**

## Reliable Combination Latch No. 30



For Sliding or Swinging Barn or Warehouse Doors or Gates.

Superior in many respects to any other combination latch, and the only latch made which operates perfectly and equally well on either sliding or swinging doors or gates.

A substantial, effective fastening, quickly applied to either right or left doors and easily operated from either side of the door.

On swinging doors it hooks itself back against the building when door is open, preventing any slamming.

The latch bar may be thrown back out of the way, leaving no parts projecting into the opening to catch on harness, clothing, vehicles, etc.

Arranged to take padlock for locking.

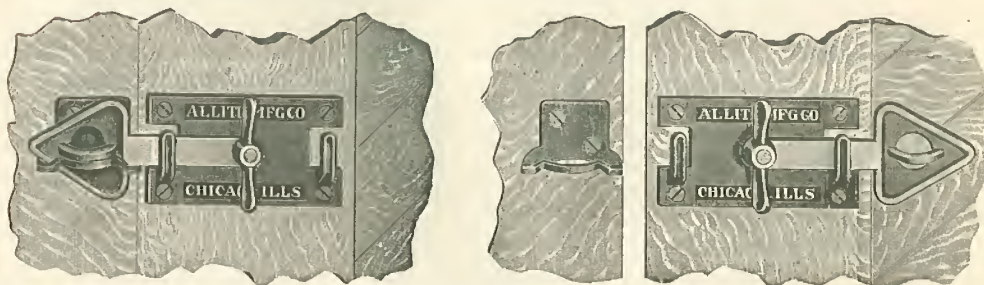
Made of highest grade non-breakable malleable iron, and durably finished in black enamel.

Length of latch bar,  $5\frac{3}{4}$  inches.

Packed one-half dozen in a box.

No.	Weight	Price
30—Barn Door Latches, per dozen.....	15 lbs.	\$4.00

## Reliable Barn Door Latch No. 31



For Sliding Barn or Warehouse Doors or Gates.

Similar to No. 30 latch described above, but constructed for use with sliding doors only.

Length of latch bar,  $5\frac{1}{2}$  inches.

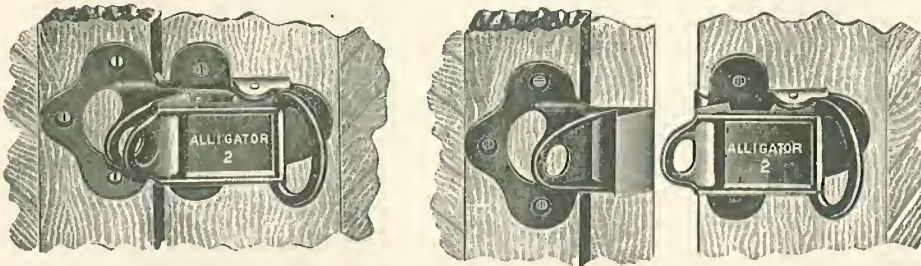
Packed one-half dozen in a box.

No.	Weight	Price
31—Barn Door Latches, per dozen.....	12 lbs.	\$2.50



**Allith Manufacturing Company, Chicago, U. S. A.**

## Alligator Barn Door Latch No. 35



The best and most popular snap latch on the market. It has every advantage of durability possible, closes and latches doors with the minimum effort, and is not affected by warping or sagging of doors.

Padlock may be snapped through latch, making a perfect lock.

Can be opened from either side of the door.

Reversible for either right or left doors.

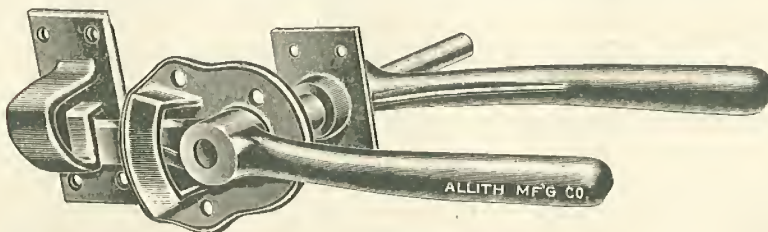
Length of latch bar,  $4\frac{1}{2}$  inches.

Packed one-half dozen in a box.

No.	Weight	Price
35—Barn Door Latches, per dozen.....	16 lbs.	\$5.00

## Gate and Door Latches

For Gates or Refrigerator and Cold Storage Doors



The simplest, strongest and most complete latch made for the purposes intended. Fits any gate or door, right or left hand, is self-closing, and is operated both inside and outside. Constructed to draw gate or door tight when nearly closed and also to draw door out in opening. Made of malleable iron and also of cast brass, with heavy solid steel connecting bar. Attachment of inside lever handle to connecting bar permits adjustment to suit thickness of gate or door.

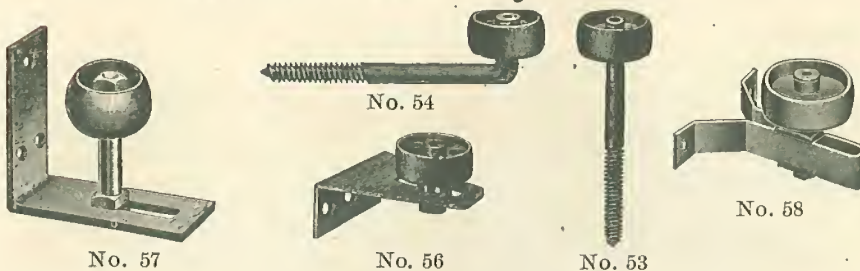
No. 173 Latch: Outside lever handle, 8 in. long; inside lever handle,  $5\frac{3}{4}$  in. long; keeper plate,  $15/16$  in. by  $3\frac{1}{2}$  in.

No. 176 Latch: Outside lever handle, 16 in. long; inside lever handle,  $11\frac{1}{2}$  in. long; keeper plate,  $1\frac{7}{8}$  in. by 7 in.

Nos.	Weights	Prices
173—Malleable Latches, japanned finish, per dozen.	25 lbs.	\$ 8.00
173G—Malleable Latches, galvanized finish, per doz.	25 lbs.	10.00
173B—Brass Latches, polished brass finish, per dozen.	25 lbs.	33.00
173N—Brass Latches, polished nickel finish, per dozen	25 lbs.	36.00
176—Malleable Latches, japanned finish, per dozen	130 lbs.	30.00
176G—Malleable Latches, galvanized finish, per dozen	130 lbs.	36.00

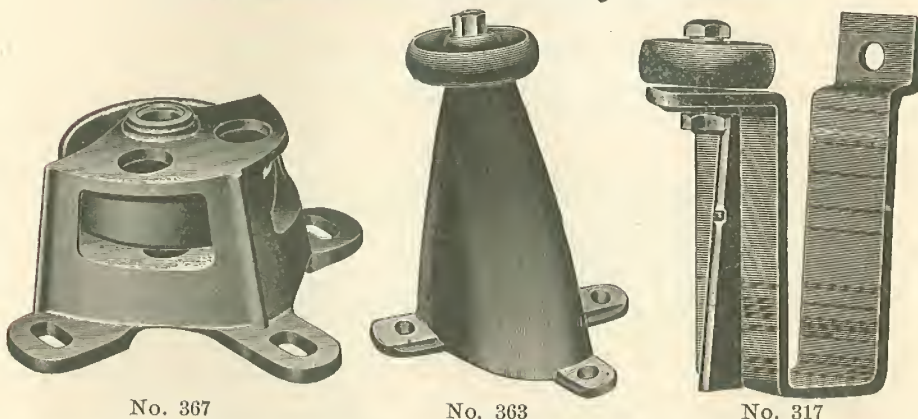
Allith Manufacturing Compnay, Chicago, U. S. A.

## Barn Door Stay Rollers



Nos.		Weights	Prices
53—	Lag Screw Stay Rollers, per dozen.....	6 lbs.	\$1.00
54—	Lag Screw Stay Rollers, per dozen.....	7½ lbs.	1.10
55—	Steel Stay Rollers, reversible and adjustable for doors 1½ to 2½ inches thick, per dozen..	10½ lbs.	1.60
57—	Steel Stay Rollers, reversible and adjustable for doors 1½ to 3 inches thick, per dozen....	19½ lbs.	2.50
58—	Steel Stay Rollers, adjustable for doors 1½ to 3 inches thick, per dozen.....	12 lbs.	2.00

## Warehouse Door Stay Rollers



Like practically all our other products, these stay rollers are made of thoroughly annealed, non-breakable malleable iron, japanned.

No. 367—7 in. wide by 3 in. high by 6 in. deep. Wheel 3½ in. diam. Has three slotted holes for ⅜ in. diam. bolts, and is generally applied with three ⅜x3½ in. lag screws.

No. 363—5½ in. wide by 9 in. high by 4¾ in. deep. Wheel 3½ in. diam. Has three round holes for ⅜ in. diam. bolts, and is generally applied with three ⅜x3½ in. lag screws.

No. 317—3½ in. wide by 9¾ in. high by 8½ in. deep. Wheel 3½ in. diam. Has one round hole for ¾ in. bolt and is generally applied with one ¾ in. machine bolt.

Nos.		Weight	Price
367—	Hooded Stay Roller, each.....	3¼ lbs.	\$0.80
363—	Pyramid Stay Roller, each.....	4¼ lbs.	1.20
317—	“U”-Shape Stay Roller, each.....	8¾ lbs.	1.50

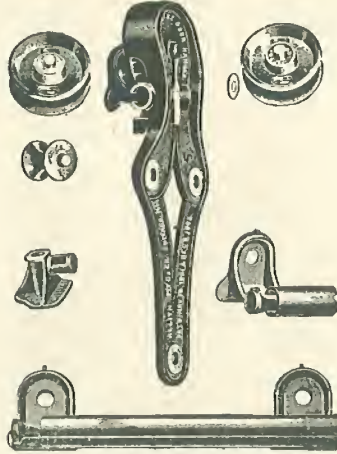
Packed in bulk without screws or bolts.



Allith Manufacturing Company, Chicago, U. S. A.

## Warehouse Door Hangers

Nos. 3, 4 and 6 with Track Nos. 3 and 7



No. 3 Hanger with Nos. 3 or 7 Track.

Our warehouse door hangers and track are the strongest and most durable hardware made for carrying sliding doors and are recommended for use on heavier doors or doors subjected to rougher treatment than our barn door hangers and track are intended to carry.

The hanger frames, upper and lower wheels and track supports are made of refined malleable iron, tested before leaving factory, guaranteeing uniform and superior quality.

The upper wheel of the hangers has hardened steel axle, bushing, washers, and roller bearings packed in the highest grade graphite lubricant, making the hangers absolutely anti-friction and very durable.

The lower wheel, by contact with the track, should the door be raised, prevents derailing or binding.

The track is a high carbon, heavy, round steel tube with a slot in the rear, allowing insertion of track supports, which may be spaced to suit requirements. The cylindrical form of the track is stronger than any other style and affords a perfect bearing for the hanger roller with no side friction.

Although Nos. 3 and 7 track for warehouse doors is generally furnished in single lengths of six, eight and ten feet, we stock it regularly in all lengths to fifteen feet.

Hangers, track and track supports are durably finished in black enamel baked on.

Our No. 4 flush hanger is similar to our No. 3, but with flatter back and flat aprons for attaching to the door, which may be mortised in, leaving the hanger flush with both sides of the door. Although not commonly used, this hanger is frequently desirable under certain conditions, where the door arrangement or building construction will not take the projections of our Nos. 3 or 6 hangers.

Used with Nos. 3 or 7 single or Nos. 36P or 76P parallel track (pages 18 and 20).



No. 4

## Allith Manufacturing Company, Chicago, U. S. A.



No. 6

Our No. 6 double adjustable hanger, with vertical adjustment of  $2\frac{1}{4}$  inches and horizontal adjustment of  $1\frac{1}{2}$  inches, is the best obtainable for extremely heavy doors, where such adjustability in the door hanger is generally desirable. The hanger is made of the same high grade non-breakable malleable iron as our No. 3 and fitted with the same large, easy-running, roller-bearing upper wheel.

For heavy parallel sliding doors, such as used on freight stations, garages, warehouses, etc., it has no equal.

For illustration of parts see page 37.

Used with Nos. 3 or 7 single or Nos. 36P or 76P parallel track (page 20).

No. 3 Hanger frame, 8 in. wide, 21 in. long, upper wheel  $4\frac{1}{4}$  in. in diameter.

No. 4 Hanger frame, 5 in. wide, 14 in. long, upper wheel  $4\frac{1}{4}$  in. in diameter.

No. 6 Hanger frame, 8 in. wide, 23 in. long, upper wheel  $4\frac{1}{4}$  in. in diameter.

No. 3 Track,  $1\frac{7}{16}$  in. in diameter.

No. 7 Track,  $1\frac{1}{2}$  in. in diameter.

Nos. 3, 4 and 6 hangers are shipped three or six pairs in a crate, including end track supports and bolts for attaching hangers to door.

Track is shipped in bundles. Track supports are shipped in bulk.

No. 3 track with supports every 2 ft. will carry 1,000-lb. doors.

No. 3 track with supports every 18 in. will carry 1,500-lb. doors.

No. 7 track with supports every 2 ft. will carry 1,600-lb. doors.

No. 7 track with supports every 18 in. will carry 2,200-lb. doors.

For heavier doors space the supports proportionally closer. If door weighs more than 1,000 lbs., use No. 7 track in preference to No. 3.

Nos. 3C, 3E and 3J supports are for doors over  $2\frac{1}{2}$  inches thick, and Nos. 3C2, 3E2 and 3J2 for doors  $2\frac{1}{2}$  inches thick and under.

Nos.	Weights	Prices
3—Hangers, per pair.....	20 lbs.	\$ 4.20
4—Flush Hangers, per pair.....	22 lbs.	6.00
6—Double Adjustable Hangers, per pair.....	30 lbs.	6.00
3—Track with supports every two feet, per 100 feet .....	225 lbs.	30.00
7—Track with supports every two feet, per 100 feet .....	269 lbs.	45.00
3—Track without supports, per 100 feet.....	159 lbs.	21.56
7—Track without supports, per 100 feet.....	203 lbs.	36.56
3C—Center Supports for Nos. 3 or 7 track, per 100..	149 lbs.	19.20
3E—End Supports for Nos. 3 or 7 track, per 100...	164 lbs.	19.20
3C2—Center Supports for Nos. 3 or 7 track, per 100..	133 lbs.	19.20
3E2—End Supports for Nos. 3 or 7 track, per 100...	148 lbs.	19.20
3J—Joint Supports for Nos. 3 or 7 track, per 100...	190 lbs.	30.00
3J2—Joint Supports for Nos. 3 or 7 track, per 100...	168 lbs.	30.00

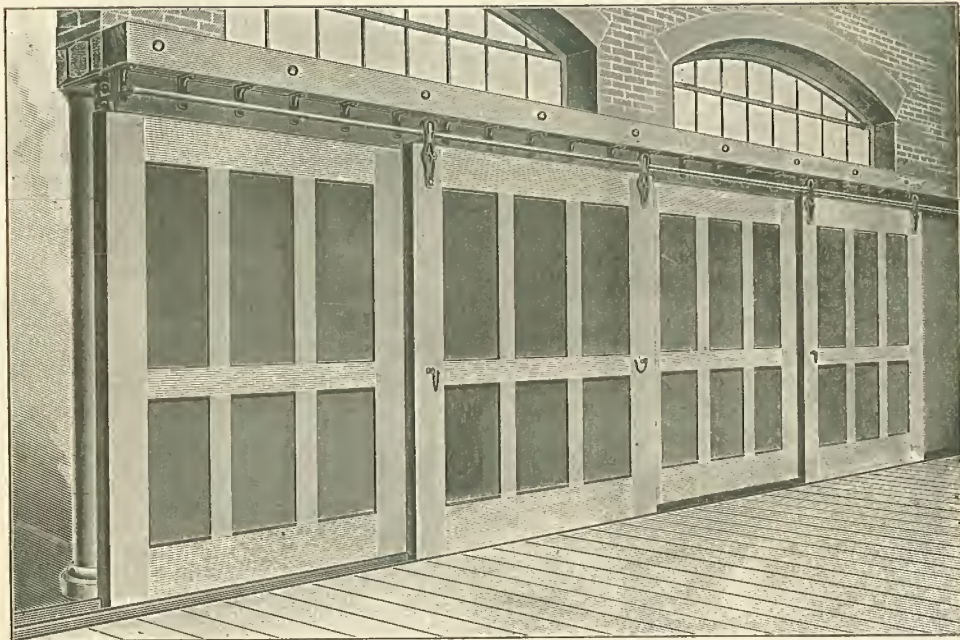


**Allith Manufacturing Company, Chicago, U. S. A.**

## **Parallel Door Equipment**

**The Only Practical Carrying Outfit for Continuous Doors**

**The Only Absolutely Storm-Proof Arrangement**



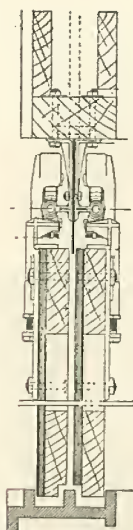
This equipment is designed to insure perfect movement of continuous parallel doors, such as used in freight stations, warehouses, etc., and permits an opening at any place desired.

Our Nos. 2, 3, 4 and 6 hangers are used to accommodate doors of different styles, weights and thicknesses.

The track as shown above is assembled complete in sections to accommodate different openings. It is suitable for attaching to any construction. Installation is simple and alignment perfect. The parting strip fastened between the supports and extending below top of door makes the equipment absolutely storm-proof as well as the strongest on the market.



# Allith Manufacturing Company, Chicago, U. S. A.



Sectional View of Parallel Equipment

The distance required between the top of the doors and the bottom of the beam or overhead structure supporting the track is as follows:

- No. 2 Hanger with No. 22P track, 6½ in.
- No. 3 Hanger with Nos. 33P or 73P track, 8½ in.
- No. 4 Hanger with Nos. 36P or 76P track, 9¾ in.
- No. 6 Hanger with Nos. 36P or 76P track, 10 in.

Detail drawings furnished on application.

Nos. 2, 3 and 4 hangers are rigid or non-adjustable. For description of No. 2 hangers see pages 12-13; for No. 3 see pages 17, 18 and 36; and for No. 4 see pages 17-18. No. 6 hanger has a vertical adjustment of 2¼ inches, and a lateral adjustment of 1½ inches. For description of No. 6 hanger see pages 17, 18 and 37.

The track used in No. 22P is 1 5/16 inches in diameter; in Nos. 33P and 36P, 1 7/16 inches in diameter; and in Nos. 73P and 76P, 1½ inches in diameter.

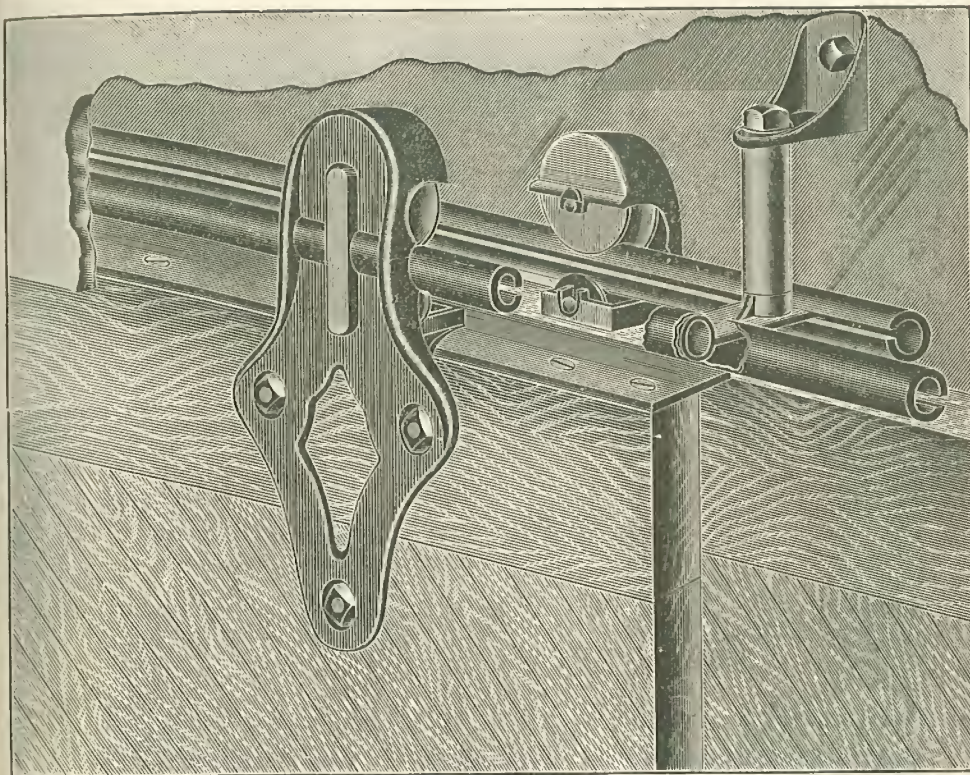
	Weights	Prices
2—Hangers, per pair.....	8 lbs.	\$1.60
3—Hangers, per pair.....	20 lbs.	4.20
4—Hangers, per pair.....	22 lbs.	6.00
6—Hangers, per pair.....	30 lbs.	6.00
22P—Parallel Track with 7-inch storm proof plate and supports every two feet, per 100 feet.	550 lbs.	70.00
33P—Parallel Track with 9-inch storm proof plate and supports every two feet, per 100 feet.	880 lbs.	120.00
36P—Parallel Track with 10¾-inch storm proof plate and supports every two feet, per 100 feet .....	945 lbs.	130.00
73P—Parallel Track with 9-inch storm-proof plate and supports every two feet, per 100 feet.	968 lbs.	150.00
76P—Parallel Track with 10¾-inch storm proof plate and supports every two feet, per 100 feet .....	1033 lbs.	160.00
22P—Parallel Track without storm proof plate and without supports, per 100 feet.....	194 lbs.	22.72
33P—Parallel Track without storm proof plate and without supports, per 100 feet.....	318 lbs.	43.12
36P—Parallel Track without storm proof plate and without supports, per 100 feet.....	318 lbs.	43.12
73P—Parallel Track without storm proof plate and without supports, per 100 feet.....	406 lbs.	73.12
76P—Parallel Track without storm proof plate and without supports, per 100 feet.....	406 lbs.	73.12
22PC—Supports for No. 22P track, per 100.....	90 lbs.	20.00
33PC—Supports for No. 33P track, per 100.....	221 lbs.	40.00
36PC—Supports for No. 36P track, per 100.....	221 lbs.	40.00
73PC—Supports for No. 73P track, per 100.....	221 lbs.	40.00
76PC—Supports for No. 76P track, per 100.....	221 lbs.	40.00



Allith Manufacturing Company, Chicago, U. S. A.

## Parallel Door Equipment

For Barn Doors



In this outfit the track supports are made for attaching to the side wall instead of to an overhead beam or other structure directly overhead as used with the parallel door equipment described on the preceding pages. Although the other style is preferable, this arrangement is sometimes more convenient to use, and proves a satisfactory equipment for doors not weighing over five hundred pounds.

The hanger is similar to our No. 2 barn door hanger, but with a flatter back, giving less projection beyond the face of the door. The track is our double No. 2 with substantial supports, which may be spaced to suit any requirements.

With this equipment we do not include the steel weather strip shown attached to the outer door and projecting over the inner door, but if desired, we can furnish same at extra charge. This equipment is not as weather-proof as the style described on the preceding pages.

Nos.

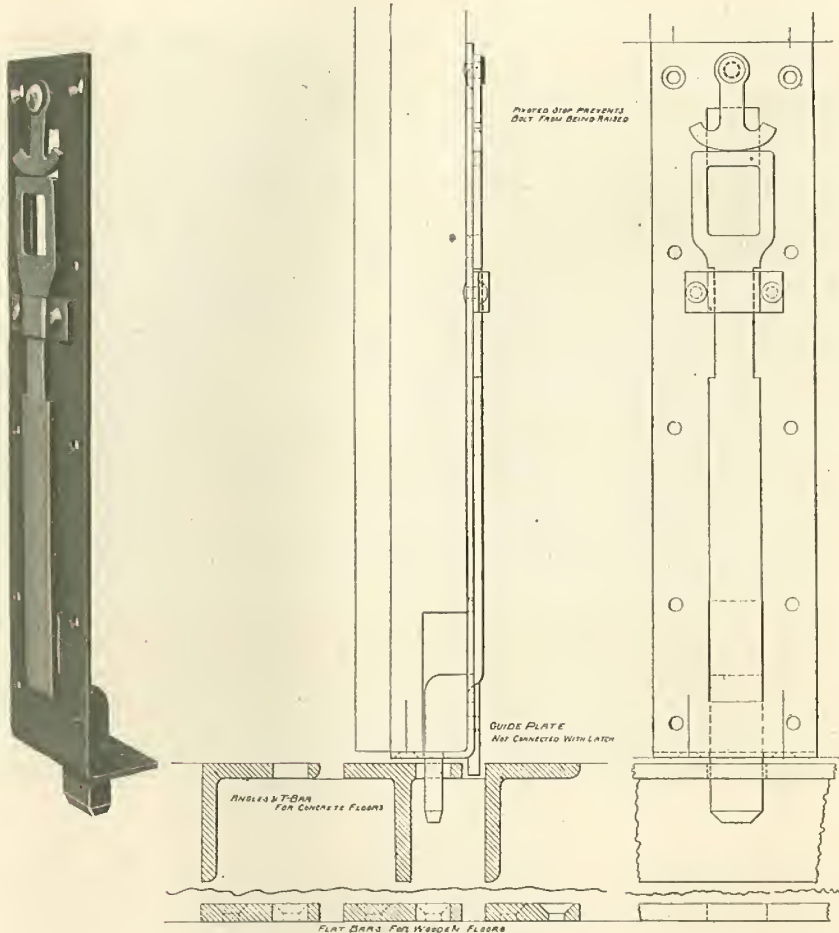
Weights Prices

8—Parallel Door Hangers, per pair.....	8 lbs.	\$ 1.60
28P—Parallel Track with supports every two feet,		
per 100 feet .....	250 lbs.	50.00
28P—Parallel Track without supports, per 100 feet	194 lbs.	22.72
28PC—Center Track Supports, per 100.....	350 lbs.	60.00
28PE—End Track Supports, per 100.....	360 lbs.	60.00



Allith Manufacturing Company, Chicago, U. S. A.

## Parallel Door Bottom Bolt No. 390



Fills a long felt want as a successful fastening or locking device for continuous parallel doors. The bolt proper and the pivoted stop are made of the best grade non-breakable malleable iron, and the plate of heavy steel, making a strong, substantial bolt. The bolt proper, operating by gravity, drops into a hole placed at the proper point in the floor guide, where it locks automatically through the operation of the pivoted stop above it. Is readily unbolted by simply swinging the pivoted stop to either side and raising bolt.

The door and floor guides shown in the drawing, independent from the bottom bolt, are made of common steel or iron plates and bars procurable from any concern dealing in such material.

Plate,  $3\frac{1}{2}$  in. wide by  $15\frac{1}{4}$  in. high. Bolt,  $1\frac{1}{8}$  by  $\frac{3}{8}$  in.

No.	Weight	Price
390—Parallel Door Bottom Bolt, each.....	$3\frac{1}{2}$ lbs.	\$1.50
Packed in bulk without screws or bolts.		



**Allith Manufacturing Company, Chicago, U. S. A.**

## **Allith Sliding Fire Door Hardware**

*"Always on the Track"*

For Inside or Outside Sliding Doors or Shutters, for Fire-wall and Other Openings. Easiest and Simplest to Install; Strongest and Most Efficient, Durable and Satisfactory Hardware Made.

**Regularly inspected and labeled under the supervision of the Underwriters' Laboratories (Inc.), under direction of the National Board of Fire Underwriters.**

Horizontally Sliding Fire Doors are Preferable to either Vertical or Swinging Fire Doors.

### **Photograph of Tin Clad Fire Door**

Hung with Allith Fire Door Hangers and Track. Conclusive Evidence that Allith Hardware is "BEST BY TEST."



This door was subjected to 2000 degrees of heat for 2 hours and 15 minutes. At the end of this time a stream of water under fire pressure was turned on the door.

Note the perfect condition of the hangers and the track after this severe test.

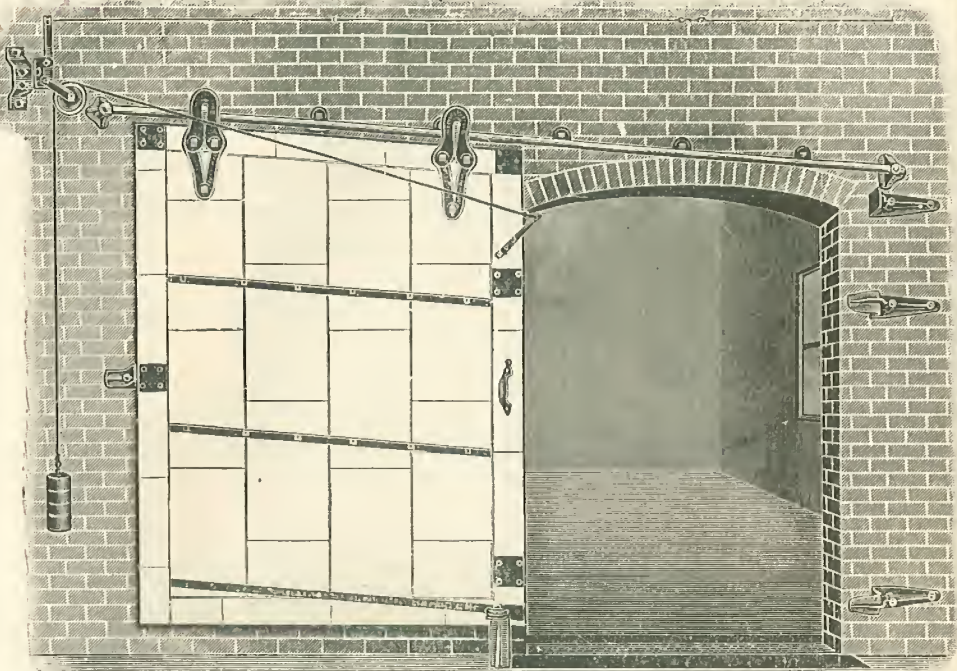
**Allith Sliding Fire Door Hardware is regularly inspected and labeled under the supervision of the Underwriters' Laboratories (Inc.), under direction of the National Board of Fire Underwriters.**



Allith Manufacturing Company, Chicago, U. S. A.

## Allith Sliding Fire Door Hardware

Inclined Track Style No. 500 Automatic Closing Device



Style No. 500 represents the most reliable and effective automatic closing feature yet devised. It has two links, one placed over the opening, the other in the opening, the fusing of either instantly releasing the door.

For detail drawing see page 31.

For larger illustrations of parts see pages 34, 36, 37 and 38.

For data needed see page 40.

For prices of hardware sets see page 32.

Nos.	Weights	Prices
3—Allith Fire Door Hangers, per pair.....	20 lbs.	\$4.20
6—Allith Double Adjustable Fire Door Hangers, per pair .....	30 lbs.	6.00
(Door for opening over 6 feet wide requires 1½ pairs hangers.)		
3—Allith Fire Door Track, with supports, per foot	2¼ lbs.	.30
(Length of track required is twice the width of opening, plus one foot.)		
500—Allith Fire Door Fixtures (not including hang- ers and track), per set.....	87½ lbs.	10.80
500A—Allith Fire Door Fixtures, including all parts furnished with No. 500 fixtures, except Nos. 313, 314, 315 and 316 (page 34), per set...	69 lbs.	8.40
384—Counterbalance Weight, 4 in. diam., per lb...		.06
(In the above sets we include free of charge with each set 17 lbs. counterbalance weight.)		

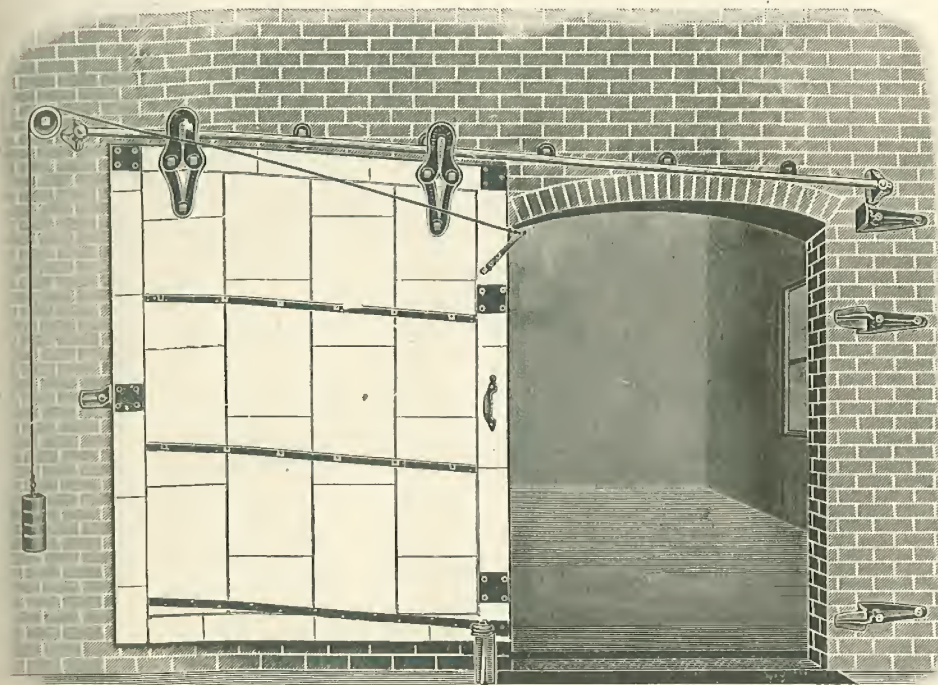
Above prices do not include wall bolts.



Allith Manufacturing Company, Chicago, U. S. A.

## Allith Sliding Fire Door Hardware

Inclined Track Style No. 700 Automatic Closing Device



Style No. 700 is often preferred because of its simplicity and ease of application. It has one link fastened to the front of door and projecting into opening.

For detail drawing see page 31.

For larger illustrations of parts see pages 34, 36, 37 and 38.

For data needed see page 40.

For prices of hardware sets see page 32.

Nos.		Weights	Prices
3—	Allith Fire Door Hangers, per pair.....	20 lbs.	\$4.20
6—	Allith Double Adjustable Fire Door Hangers, per pair .....	30 lbs.	6.00
	(Door for opening over 6 feet wide re- quires 1½ pairs hangers.)		
3—	Allith Fire Door Track, with supports, per foot (Length of track required is twice the width of opening, plus one foot.)	2¼ lbs.	.30
700—	Allith Fire Door Fixtures (not including hang- ers and track), per set.....	86½ lbs.	9.60
700A—	Allith Fire Door Fixtures, including all parts furnished with No. 700 fixtures, except Nos. 313, 314, 315 and 316 (page 34), per set..	68 lbs.	7.20
384—	Counterbalance Weight, 4 in. diam., per lb..		.06
	(In the above sets we include free of charge with each set 17 lbs. counterbalance weight.)		

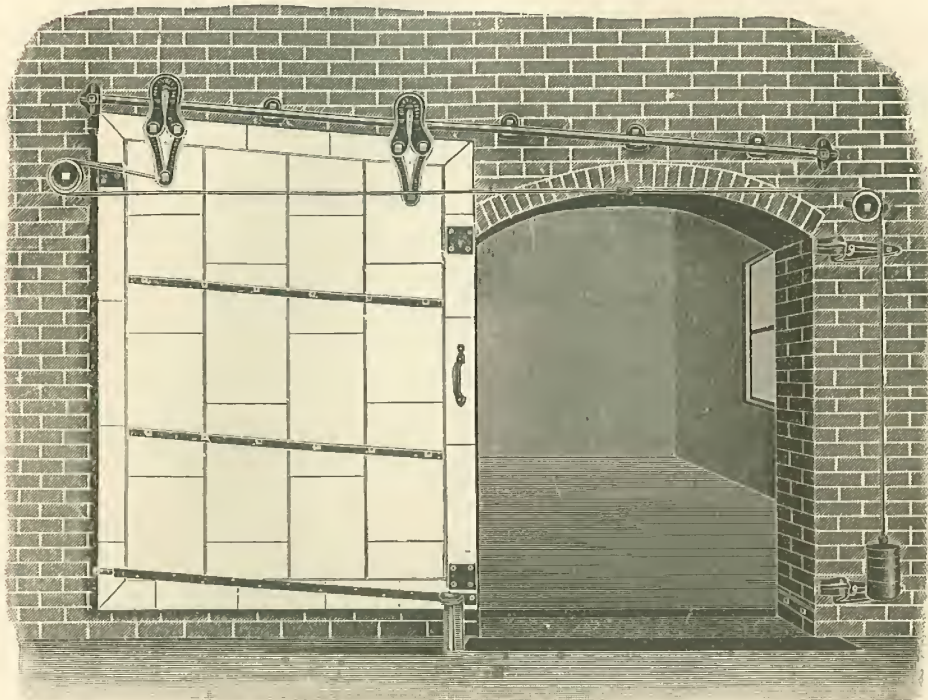
Above prices do not include wall bolts.



Allith Manufacturing Company, Chicago, U. S. A.

## Allith Sliding Fire Door Hardware

Inclined Track Style No. 600 Automatic Closing Device



Style No. 600 is a simple, effective counterbalance device with two fusible links in front of opening.

For detail drawing see page 31.

For larger illustrations of parts see pages 34, 36, 37 and 38.

For data needed see page 40.

For prices of hardware sets see page 32.

Nos.		Weights	Prices
3—	Allith Fire Door Hangers, per pair.....	20 lbs.	\$4.20
6—	Allith Double Adjustable Fire Door Hangers, per pair .....	30 lbs.	6.00
	(Door for opening over 6 feet wide requires 1½ pairs hangers.)		
3—	Allith Fire Door Track, with supports, per foot (Length of track required is twice the width of opening, plus one foot.)	2¼ lbs.	.30
600—	Allith Fire Door Fixtures (not including hang- ers and track), per set.....	92 lbs.	10.80
600A—	Allith Fire Door Fixtures, including all parts furnished with No. 600 fixtures, except Nos. 313, 314, 315 and 316 (page 34), per set .....	73½ lbs.	8.40
384—	Counterbalance Weight, 4 in. diam., per lb....		.06
	(In the above sets we include free of charge with each set 17 lbs. counterbalance weight.)		

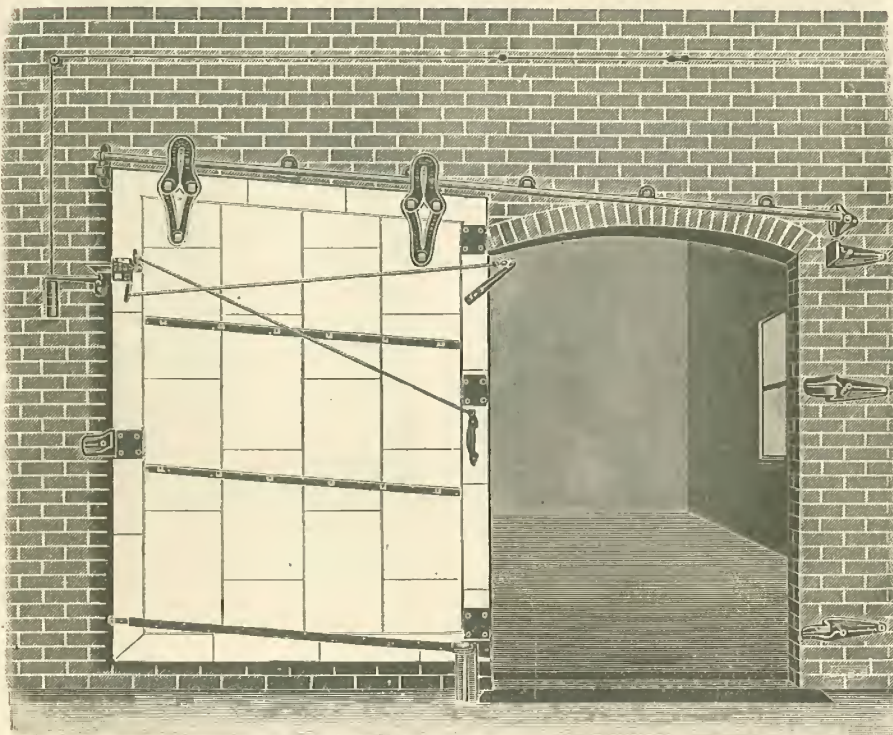
Above prices do not include wall bolts.



Allith Manufacturing Company, Chicago, U. S. A.

## Allith Sliding Fire Door or Shutter Hardware

Inclined Track Style No. 400 Automatic Closing Device



Style No. 400, a two-link device without counterbalance weights, is desirable for small doors or window shutters weighing less than three hundred pounds.

For detail drawing see page 31.

For larger illustrations of parts see pages 34, 36, 37 and 38.

For data needed see page 40.

For prices of hardware sets see page 32.

Nos.		Weights	Prices
3	Allith Fire Door Hangers, per pair.....	20 lbs.	\$4.20
6	Allith Double Adjustable Fire Door Hangers, per pair .....	30 lbs.	6.00
	(Door for opening over 6 feet wide requires 1½ pairs hangers.)		
3	Allith Fire Door Track, with supports, per foot (Length of track required is twice the width of opening, plus one foot.)	2¼ lbs.	.30
400	Allith Fire Door Fixtures (not including hang- ers and track), per set.....	7¼ lbs.	10.80
400A	Allith Fire Door Fixtures, including all parts furnished with No. 400 fixtures, except Nos. 313, 314, 315 and 316 (page 34), per set	55¾ lbs.	8.40

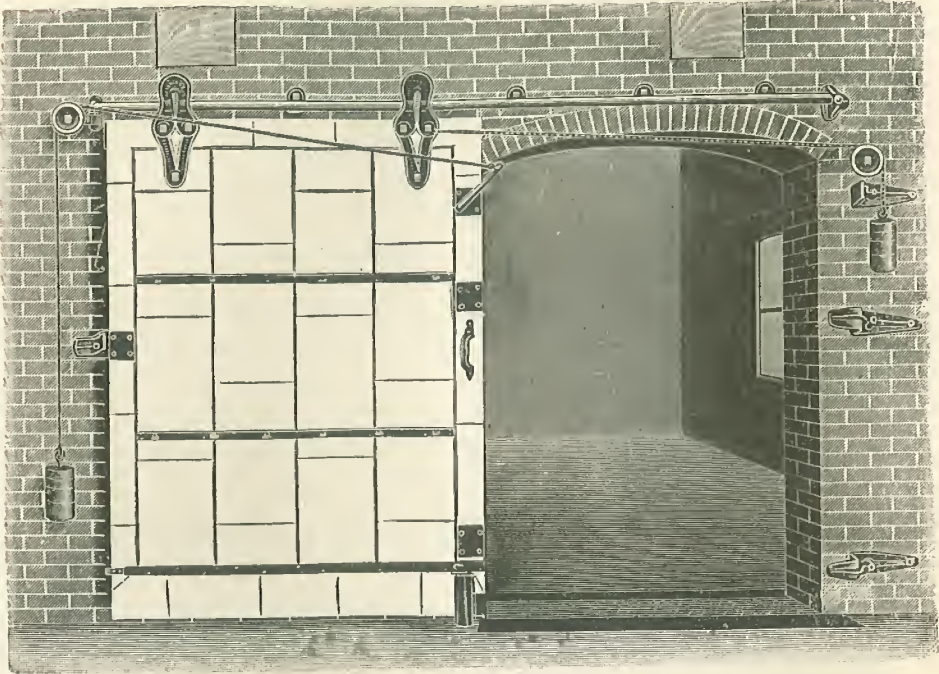
Above prices do not include wall bolts.



Allith Manufacturing Company, Chicago, U. S. A.

## Allith Sliding Fire Door Hardware

Level Track Style No. 800 Automatic Closing Device



Style No. 800 is intended for openings having twelve inches of headroom or slightly more, but not enough for the standard inclined track arrangement.

For detail drawing see page 31.

For larger illustrations of parts see pages 34, 36, 37 and 38.

For data needed see page 40.

For prices of hardware sets see page 32.

Nos.		Weights	Prices
3	Allith Fire Door Hangers, per pair.....	20 lbs.	\$4.20
6	Allith Double Adjustable Fire Door Hangers, per pair .....	30 lbs.	6.00
	(Door for opening over 6 feet wide requires 1½ pairs hangers.)		
3	Allith Fire Door Track, with supports, per foot (Length of track required is twice the width of opening, plus one foot.)	2¼ lbs.	.30
800	Allith Fire Door Fixtures (not including hangers and track), per set.....	106½ lbs.	13.20
800A	Allith Fire Door Fixtures, including all parts furnished with No. 800 fixtures except Nos. 313, 314, 315 and 316 (page 34), per set .....	88 lbs.	10.80
384	Counterbalance Weight, 4 in. diam., per lb...		.06
	(In the above sets we include free of charge with each set 34 lbs. counterbalance weight.)		

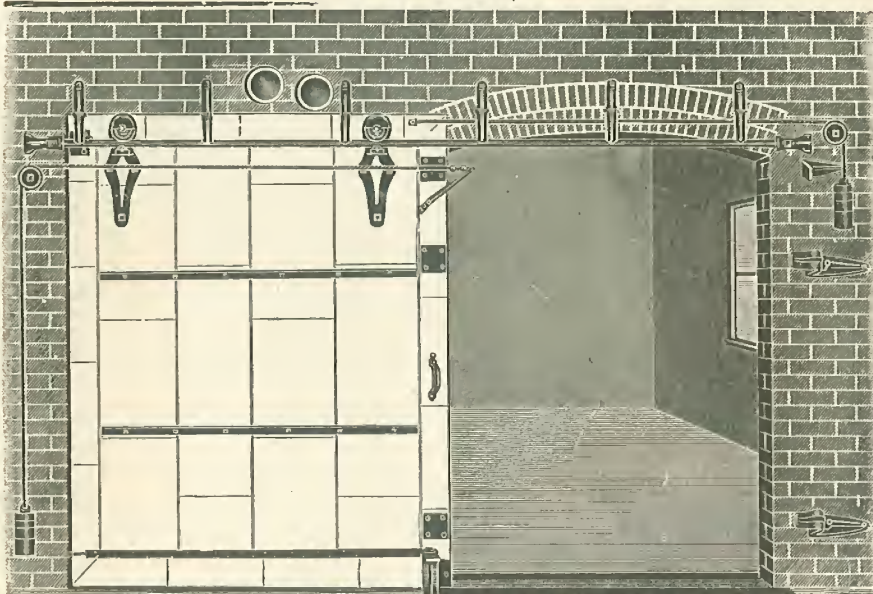
Above prices do not include wall bolts.



Allith Manufacturing Company, Chicago, U. S. A.

## Allith Sliding Fire Door Hardware

Reversed Level Track Style No. 900 Automatic Closing Device



Style No. 900 is arranged with the track outside the door, and if accommodation is made for the supports, can be used in four inches headroom.

For larger illustrations of parts see pages 34, 38.

For data needed see page 40.

For prices of hardware sets see page 32.

Nos.	Weights	Prices
9—Fire Door Hangers, per pair.. 20	lbs.	\$ 4.20
(Door for opening over 6 feet wide requires 1½ pairs hangers.)		
9—Fire Door Track, with supports, per foot .....	4¼ lbs.	.60
(Length of track required is twice the width of opening, plus fourteen inches.)		
900—Fire Door Fixtures (not including hangers and track), per set .....	109½ lbs.	13.20
900A—Fire Door Fixtures, including all parts furnished with No. 900 fixtures, except Nos. 313, 314, 315 and 316 (page 34), per set.....	91 lbs.	10.80
384—Counterbalance Weight, 4 in. diam., per lb....		.06
(In the above sets we include free of charge with each set 34 lbs. counterbalance weight.)		
9C—Center Track Support, each.....	5 lbs.	.84
9E—End Track Support, each.....	2½ lbs.	.60

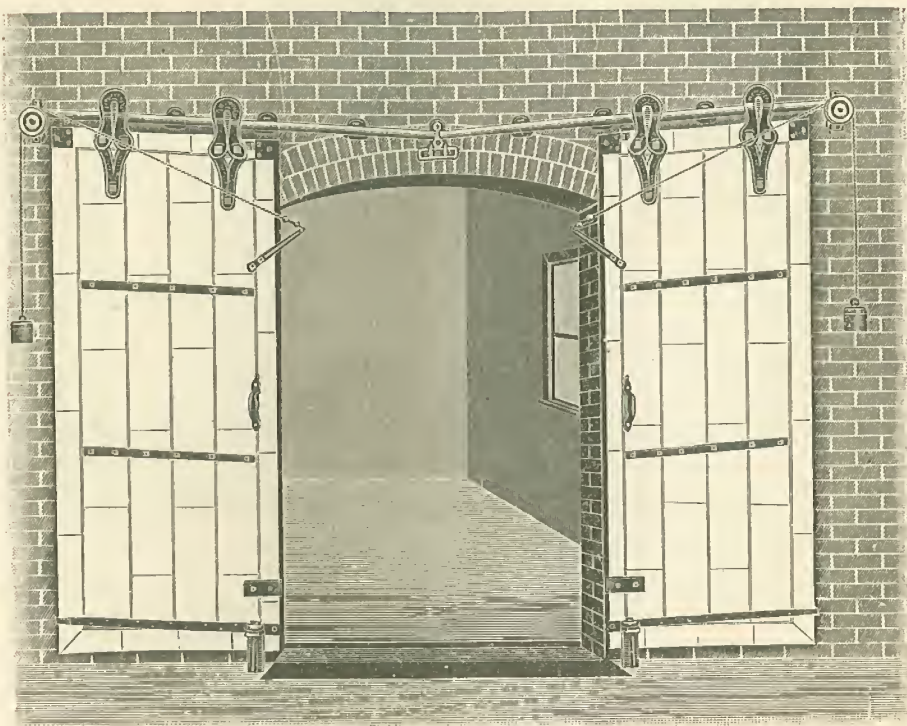
Above prices do not include wall bolts.



Allith Manufacturing Company, Chicago, U. S. A.

## Allith Double Sliding Fire Door Hardware

Inclined Track Style No. 1700 Automatic Closing Device



Style No. 1700 fixtures are arranged for doors in pairs where conditions will not permit the use of single sliding doors.

For larger illustrations of parts see pages 34, 36, 37 and 38.

For data needed see page 40.

For prices of hardware sets see page 33.

Nos.		Weights	Prices
3—	Allith Fire Door Hangers, per pair.....	20 lbs.	\$4.20
6—	Allith Double Adjustable Fire Door Hangers, per pair .....	30 lbs.	6.00
3—	Allith Fire Door Track, with supports, per foot .....	2¼ lbs.	.30
	(Length of track required is twice the width of opening, plus eight inches.)		
1700—	Allith Fire Door Fixtures (not including Hangers and track), per set.....	146½ lbs.	19.20
1700A—	Allith Fire Door Fixtures, including all parts furnished with No. 1700 fixtures, except Nos. 313, 314, 315 and 316 (page 34), per set .....	112½ lbs.	14.40
384—	Counterbalance Weight, 4 in. diam., per lb.		.06
(In the above sets we include free of charge with each set 34 lbs. counterbalance weight.)			

Above prices do not include wall bolts.



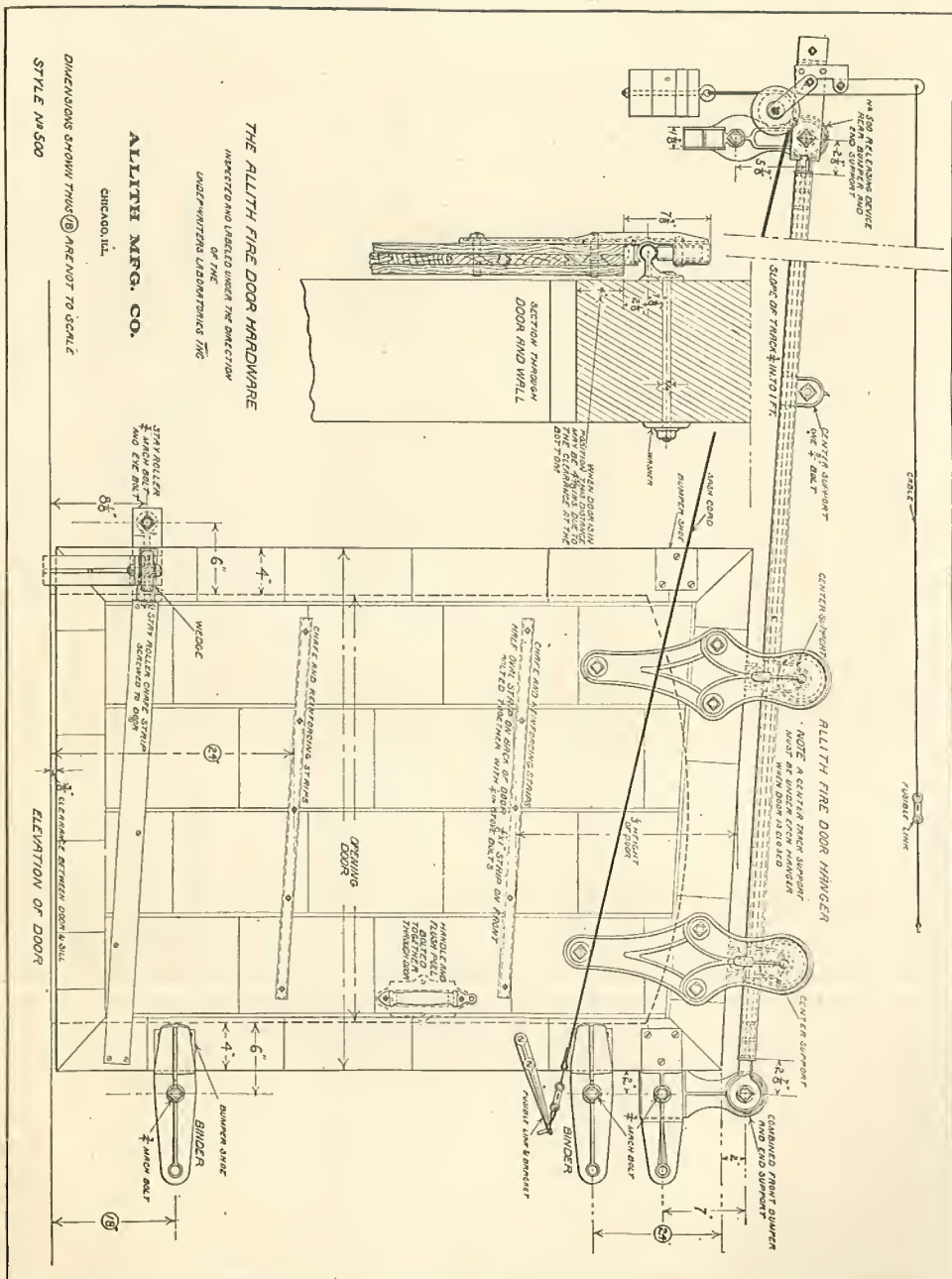
THE ALLITH FIRE DOOR HARDWARE

INSPECTED AND LABELED UNDER THE DIRECTION  
OF THE  
UNDERWRITERS LABORATORIES, INC.

ALLEN MFG. CO.

CHICAGO, ILL.

DIMENSIONS SHOWN THUS (18) ARE NOT TO SCALE



Allith Manufacturing Company, Chicago, U. S. A.

# Allith Sliding Fire Door Hardware Sets

Including No. 3 Hangers, No. 3 Track and Fixtures  
For Single Doors

OPENING	Style No. 500 (Page 24)	Style No. 700 (Page 25)	Style No. 600 (Page 26)
2½ feet wide	No. 525 \$16.80	No. 725 \$15.60	No. 625 \$16.80
3 " "	" 530 17.10	" 730 15.90	" 630 17.10
3½ " "	" 535 17.40	" 735 16.20	" 635 17.40
4 " "	" 540 17.70	" 740 16.50	" 640 17.70
4½ " "	" 545 18.00	" 745 16.80	" 645 18.00
5 " "	" 550 18.30	" 750 17.10	" 650 18.30
5½ " "	" 555 18.60	" 755 17.40	" 655 18.60
6 " "	" 560 18.90	" 760 17.70	" 660 18.90
6½ " "	" 565 21.30	" 765 20.10	" 665 21.30
7 " "	" 570 21.60	" 770 20.40	" 670 21.60
7½ " "	" 575 21.90	" 775 20.70	" 675 21.90
8 " "	" 580 22.20	" 780 21.00	" 680 22.20
8½ " "	" 585 22.50	" 785 21.30	" 685 22.50
9 " "	" 590 22.80	" 790 21.60	" 690 22.80
OPENING	Style No. 400 (Page 27)	Style No. 800 (Page 28)	Style No. 900 (Page 29)
2½ feet wide	No. 425 \$16.80	No. 825 \$19.20	No. 925 \$21.10
3 " "	" 430 17.10	" 830 19.50	" 930 21.70
3½ " "	" 435 17.40	" 835 19.80	" 935 22.30
4 " "	" 440 17.70	" 840 20.10	" 940 22.90
4½ " "	" 445 18.00	" 845 20.40	" 945 23.50
5 " "	" 450 18.30	" 850 20.70	" 950 24.10
5½ " "	" 455 18.60	" 855 21.00	" 955 24.70
6 " "	" 460 18.90	" 860 21.30	" 960 25.30
6½ " "	" 465 21.30	" 865 23.70	" 965 28.00
7 " "	" 470 21.60	" 870 24.00	" 970 28.60
7½ " "	" 475 21.90	" 875 24.30	" 975 29.20
8 " "	" 480 22.20	" 880 24.60	" 980 29.80
8½ " "	" 485 22.50	" 885 24.90	" 985 30.40
9 " "	" 490 22.80	" 890 25.20	" 990 31.00
OPENING	Style No. 500A (Page 24)	Style No. 700A (Page 25)	Style No. 600A (Page 26)
2½ feet wide	No. 525A \$14.40	No. 725A \$13.20	No. 625A 14.40
3 " "	" 530A 14.70	" 730A 13.50	" 630A 14.70
3½ " "	" 535A 15.00	" 735A 13.80	" 635A 15.00
4 " "	" 540A 15.30	" 740A 14.10	" 640A 15.30
4½ " "	" 545A 15.60	" 745A 14.40	" 645A 15.60
5 " "	" 550A 15.90	" 750A 14.70	" 650A 15.90
5½ " "	" 555A 16.20	" 755A 15.00	" 655A 16.20
6 " "	" 560A 16.50	" 760A 15.30	" 660A 16.50
6½ " "	" 565A 18.90	" 765A 17.70	" 665A 18.90
7 " "	" 570A 19.20	" 770A 18.00	" 670A 19.20
7½ " "	" 575A 19.50	" 775A 18.30	" 675A 19.50
8 " "	" 580A 19.80	" 780A 18.60	" 680A 19.80
8½ " "	" 585A 20.10	" 785A 18.90	" 685A 20.10
9 " "	" 590A 20.40	" 790A 19.20	" 690A 20.40
OPENING	Style No. 400A (Page 27)	Style No. 800A (Page 28)	Style No. 900A (Page 29)
2½ feet wide	No. 425A \$14.40	No. 825A \$16.80	No. 925A \$18.70
3 " "	" 430A 14.70	" 830A 17.10	" 930A 19.30
3½ " "	" 435A 15.00	" 835A 17.40	" 935A 19.90
4 " "	" 440A 15.30	" 840A 17.70	" 940A 20.50
4½ " "	" 445A 15.60	" 845A 18.00	" 945A 21.10
5 " "	" 450A 15.90	" 850A 18.30	" 950A 21.70
5½ " "	" 455A 16.20	" 855A 18.60	" 955A 22.30
6 " "	" 460A 16.50	" 860A 18.90	" 960A 22.90
6½ " "	" 465A 18.90	" 865A 21.30	" 965A 25.60
7 " "	" 470A 19.20	" 870A 21.60	" 970A 26.20
7½ " "	" 475A 19.50	" 875A 21.90	" 975A 26.80
8 " "	" 480A 19.80	" 880A 22.20	" 980A 27.40
8½ " "	" 485A 20.10	" 885A 22.50	" 985A 28.00
9 " "	" 490A 20.40	" 890A 22.80	" 990A 28.90

Above prices include 1½ pairs hangers for all openings over 6 feet wide.  
Above prices include hangers, track and fixtures with bolts and screws for attaching parts to door, and wall bolt washers. Wall bolts are not included.  
Above prices are for hardware for one door only to an opening. If opening has two doors, one on each side of wall, double the prices.

Above prices include 17 lbs. counterbalance weight with each set in styles Nos. 500, 500A, 700, 700A, 600 and 600A; and 34 lbs. with styles Nos. 800, 800A, 900 and 900A. For inclined top doors the amount of additional counterbalance weight required can be determined by deducting 17 lbs. from one-twentieth the weight of the door; and for level sliding doors, by deducting 34 lbs. from one-tenth the weight of the door.

Above sets, except in style No. 900, include our No. 3 hangers. If our No. 6 double adjustable hangers are wanted instead, add \$1.80 to the price of any set for opening 6 feet wide or less, and \$2.70 to sets for wider openings. (Our No. 9 hanger only is furnished in sets in styles Nos. 900 and 900A.)



Allith Manufacturing Company, Chicago, U. S. A.

# Allith Sliding Fire Door Hardware Sets

Including No. 3 Hangers, No. 3 Track and Fixtures for Double Doors  
(Split Doors or Doors in Pairs)

OPENING	Style No. 1500	Style No. 1700 (Page 30)	Style No. 1600
2½ feet wide	No. 1525 \$31.70	No. 1725 \$29.30	No. 1625 \$34.70
3 " "	" 1530 32.00	" 1730 29.60	" 1630 35.00
3½ " "	" 1535 32.30	" 1735 29.90	" 1635 35.30
4 " "	" 1540 32.60	" 1740 30.20	" 1640 35.60
4½ " "	" 1545 32.90	" 1745 30.50	" 1645 35.90
5 " "	" 1550 33.20	" 1750 30.80	" 1650 36.20
5½ " "	" 1555 33.50	" 1755 31.10	" 1655 36.50
6 " "	" 1560 33.80	" 1760 31.40	" 1660 36.80
6½ " "	" 1565 34.10	" 1765 31.70	" 1665 37.10
7 " "	" 1570 34.40	" 1770 32.00	" 1670 37.40
7½ " "	" 1575 34.70	" 1775 32.30	" 1675 37.70
8 " "	" 1580 35.00	" 1780 32.60	" 1680 38.00
8½ " "	" 1585 35.30	" 1785 32.90	" 1685 38.30
9 " "	" 1590 35.60	" 1790 33.20	" 1690 38.60
OPENING	Style No. 1400	Style No. 1800	Style No. 1900
2½ feet wide	No. 1425 \$33.70	No. 1825 \$38.50	No. 1925 \$42.30
3 " "	" 1430 34.00	" 1830 38.80	" 1930 42.90
3½ " "	" 1435 34.30	" 1835 39.10	" 1935 43.50
4 " "	" 1440 34.60	" 1840 39.40	" 1940 44.10
4½ " "	" 1445 34.90	" 1845 39.70	" 1945 44.70
5 " "	" 1450 35.20	" 1850 40.00	" 1950 45.30
5½ " "	" 1455 35.50	" 1855 40.30	" 1955 45.90
6 " "	" 1460 35.80	" 1860 40.60	" 1960 46.50
6½ " "	" 1465 36.10	" 1865 40.90	" 1965 47.10
7 " "	" 1470 36.40	" 1870 41.20	" 1970 47.70
7½ " "	" 1475 36.70	" 1875 41.50	" 1975 48.30
8 " "	" 1480 37.00	" 1880 41.80	" 1980 48.90
8½ " "	" 1485 37.30	" 1885 42.10	" 1985 49.50
9 " "	" 1490 37.60	" 1890 42.40	" 1990 50.10
OPENING	Style No. 1500A	Style No. 1700A (Page 30)	Style No. 1600A
2½ feet wide	No. 1525A \$26.90	No. 1725A \$24.50	No. 1625A \$29.90
3 " "	" 1530A 27.20	" 1730A 24.80	" 1630A 30.20
3½ " "	" 1535A 27.50	" 1735A 25.10	" 1635A 30.50
4 " "	" 1540A 27.80	" 1740A 25.40	" 1640A 30.80
4½ " "	" 1545A 28.10	" 1745A 25.70	" 1645A 31.10
5 " "	" 1550A 28.40	" 1750A 26.00	" 1650A 31.40
5½ " "	" 1555A 28.70	" 1755A 26.30	" 1655A 31.70
6 " "	" 1560A 29.00	" 1760A 26.60	" 1660A 32.00
6½ " "	" 1565A 29.30	" 1765A 26.90	" 1665A 32.30
7 " "	" 1570A 29.60	" 1770A 27.20	" 1670A 32.60
7½ " "	" 1575A 29.90	" 1775A 27.50	" 1675A 32.90
8 " "	" 1580A 30.20	" 1780A 27.80	" 1680A 33.20
8½ " "	" 1585A 30.50	" 1785A 28.10	" 1685A 33.50
9 " "	" 1590A 30.80	" 1790A 28.40	" 1690A 33.80
OPENING	Style No. 1400A	Style No. 1800A	Style No. 1900A
2½ feet wide	No. 1425A \$28.90	No. 1825A \$33.70	No. 1925A \$37.50
3 " "	" 1430A 29.20	" 1830A 34.00	" 1930A 38.10
3½ " "	" 1435A 29.50	" 1835A 34.30	" 1935A 38.70
4 " "	" 1440A 29.80	" 1840A 34.60	" 1940A 39.30
4½ " "	" 1445A 30.10	" 1845A 34.90	" 1945A 39.90
5 " "	" 1450A 30.40	" 1850A 35.20	" 1950A 40.50
5½ " "	" 1455A 30.70	" 1855A 35.50	" 1955A 41.10
6 " "	" 1460A 31.00	" 1860A 35.80	" 1960A 41.70
6½ " "	" 1465A 31.30	" 1865A 36.10	" 1965A 42.30
7 " "	" 1470A 31.60	" 1870A 36.40	" 1970A 42.90
7½ " "	" 1475A 31.90	" 1875A 36.70	" 1975A 43.50
8 " "	" 1480A 32.20	" 1880A 37.00	" 1980A 44.10
8½ " "	" 1485A 32.50	" 1885A 37.30	" 1985A 44.70
9 " "	" 1490A 32.80	" 1890A 37.60	" 1990A 45.30

Above prices include hangers, track and fixtures with bolts and screws for attaching parts to doors, and wall bolt washers. Wall bolts are not included.

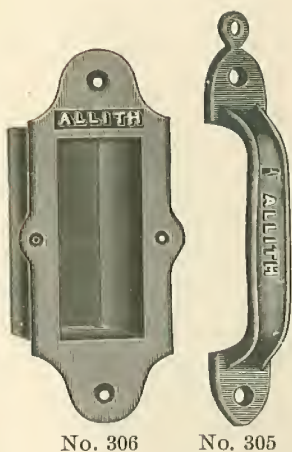
Above prices are for hardware for one pair of doors only to an opening. If opening has two pairs of doors, one pair on each side of wall, double the prices.

Above prices include 34 lbs. counterbalance weight with each set in styles Nos. 1500, 1500A, 1700, 1700A, 1600 and 1600A; and 68 lbs. with styles Nos. 1800, 1800A, 1900 and 1900A. For inclined port doors the amount of additional counterbalance weight required can be determined by deducting 34 lbs. from one-twentieth the combined weight of the two doors; and for level sliding doors, by deducting 68 lbs. from one-tenth the combined weight of the two doors.

Above sets, except in style No. 1900, include our No. 3 hangers. If our No. 6 double adjustable hangers are wanted instead, add \$3.60 to the price of any set. (Our No. 9 hanger only is furnished in sets in styles Nos. 1900 and 1900A.)



**Allith Manufacturing Company, Chicago, U. S. A.**



No. 306

No. 305



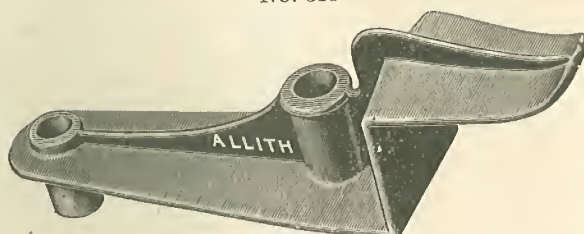
No. 314



No. 315



No. 316



No. 307



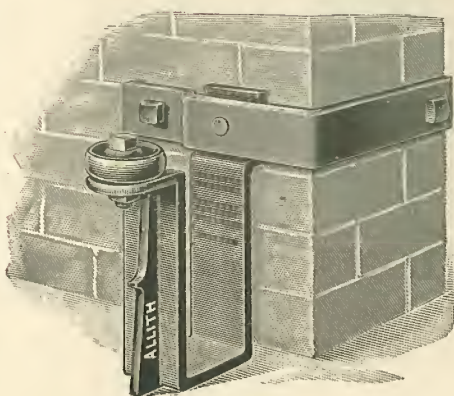
No. 313



No. 312



No. 328



No. 364




No. 329

## Approved Sliding Fire Door Hardware Parts



UNDERWRITERS  
INSPECTED  
HARDWARE  
LABORATORIES



**UNDERWRITERS LABORATORIES, Inc.**  
UNDER THE DIRECTION OF THE  
NATIONAL BOARD OF FIRE UNDERWRITERS

**Hardware for Fire Doors.**

**Sai No. 1409**

For the purpose of determining the relative fire resistance of fire doors, the following tests were made at Underwriters Laboratories, Inc., Chicago, Illinois, on the 10th day of November, 1910, and the results are given in this report.

1. A door 36 inches high and 30 inches wide, with a thickness of 1 1/2 inches, was tested. The door was made of solid oak, and the hardware was as follows:

2. Two hinges for openings six feet and less in width, these hinges for openings wider than six feet. Bolts for attaching hardware to door.

3. Two adjustable iron binders.

4. One metal puller stay roll.

5. Sixteen heavy steel chain, including two special size supports.

6. Two 1/2 x 1/2 inch oval end casting strips for attaching the chain to the front of door opposite the oval strips. Bolts for attaching the above hardware to the back of door. Length of above strips to be 4 inches less than door opening.

7. One 1/2 x 1/2 inch strip 5 inches less than with door to take wear of stay roll.

8. Wood screw for fitting.

9. One steel wedge with screws for attaching.

10. One wood shaped metal end and first pull with bolts for attaching.

11. One front bumper and one back bumper.

12. One door stopper.

13. One weather bar each wall bolt, including bolts for binders, puller, and stay roll.

Where the hardware for a single door was on each side, the hardware for a double door was on both sides and the fire protection was necessary.

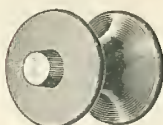
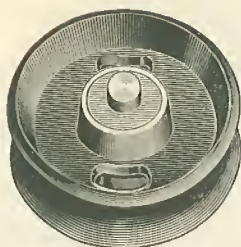
14. One door stopper for each door, and one weather bar on each side. Accurate attachments may not be put on the door.

— UNDERWRITERS LABORATORIES, Inc. —

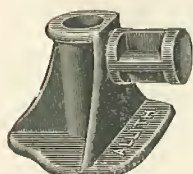
**Allith Sliding Fire Door Hardware** is regularly inspected and labeled under the supervision of the Underwriters' Laboratories (Inc.), under direction of the National Board of Fire Underwriters.

Allith Manufacturing Company, Chicago, U. S. A.

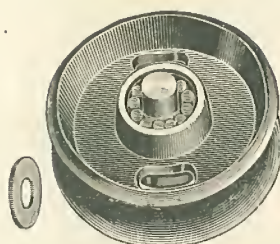
## Details of Allith Fire Door Hanger and Track No. 3



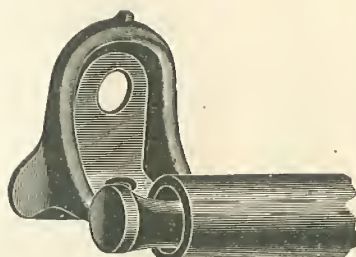
Upper and Lower  
Wheels



End Track Support



Upper Wheel with Washer  
Removed



Center Track Support



Track with Center Supports

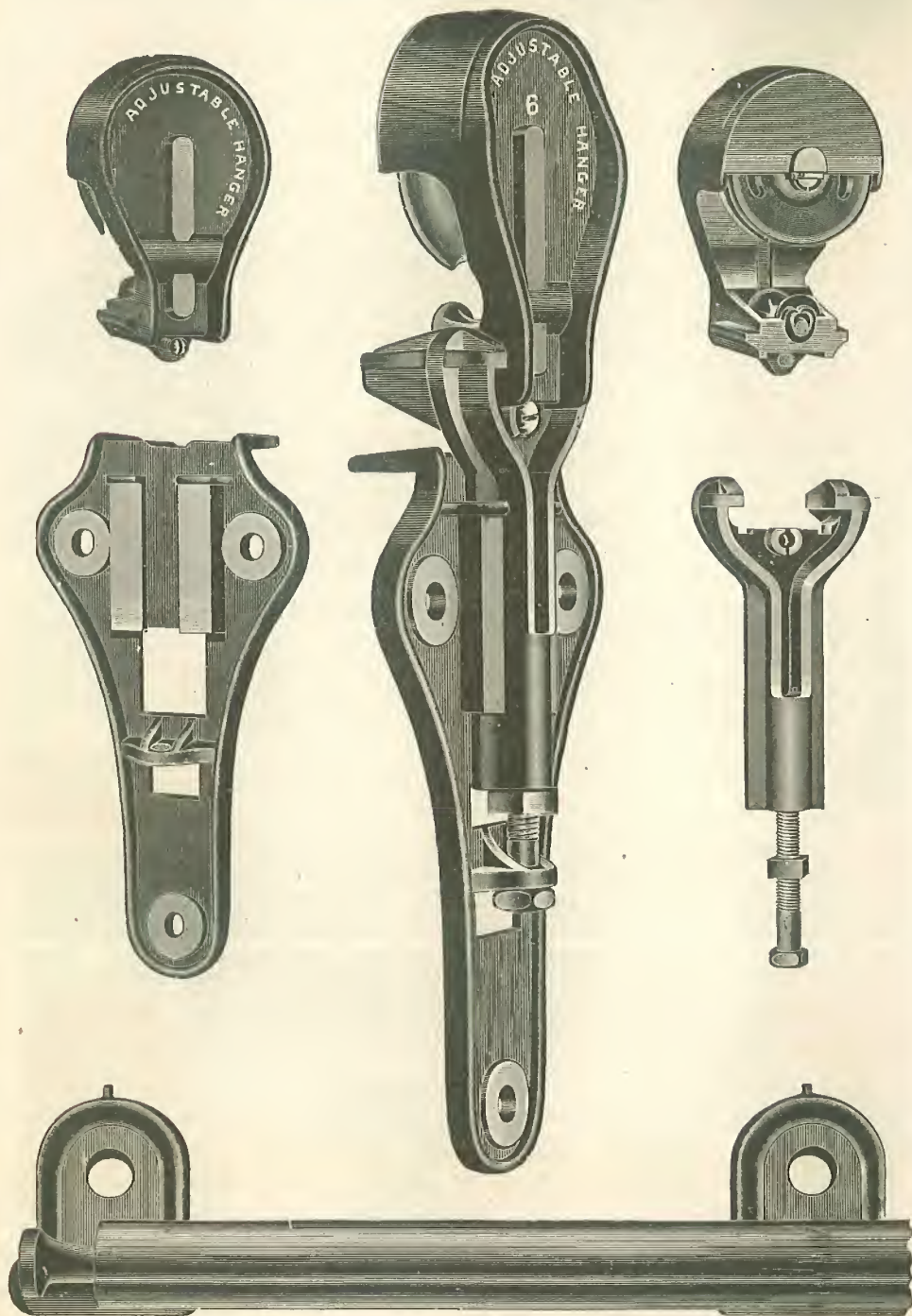
Regularly inspected and labeled under the directions of the Underwriters'  
Laboratories (Inc.)

For Description See Pages 17-18



Allith Manufacturing Company, Chicago, U. S. A.

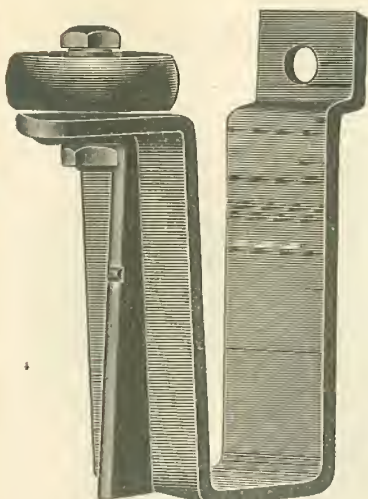
## Details of Allith Double Adjustable Fire Door Hanger No. 6



For Description See Pages 17-18.



**Allith Manufacturing Company, Chicago, U. S. A.**



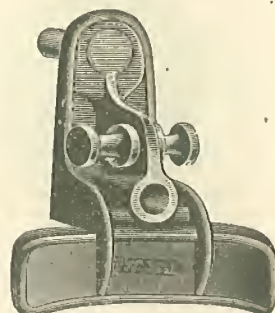
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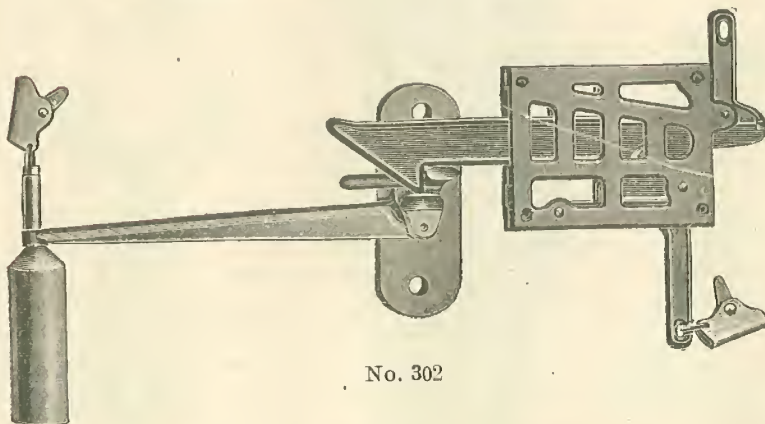
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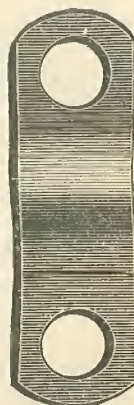
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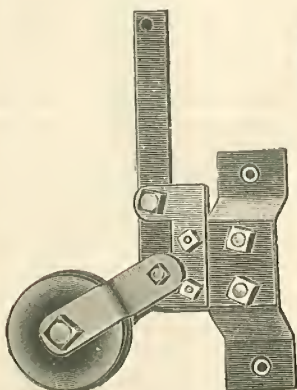
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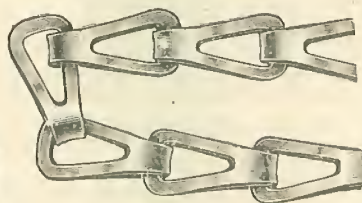
No. 302



No. 370



No. 365



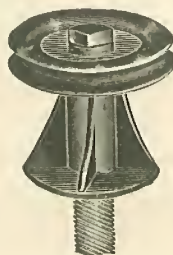
No. 324



No. 323



No. 304



No. 326



No. 303



Nos. 384 and 386



## Sliding Fire Door Hardware Parts

Nos.	Weights	Prices
302—Automatic Latch for Style No. 400, each.....	8 lbs.	\$3.00
303—Link Bracket, each .....	3-5 lb.	.10
304—Fusible Link with "S" Hooks, each.....	$\frac{1}{2}$ oz.	.30
317—"U"-Shape Stay Roller, each.....	$8\frac{1}{4}$ lbs.	1.50
323—Sash Cord, per 100 feet.....	$2\frac{1}{4}$ lbs.	1.50
324—Sash Chain, per 100 feet.....	7 lbs.	5.00
326—Cord Pulley, each .....	$3\frac{3}{4}$ lbs.	.80
330—Lower Front Binder for Style No. 1700, each.	2 lbs.	.50
331—Combined Front Binder and Track Support for Style No. 1700, each.....	6 lbs.	1.80
341—1-16-inch Wire Rope for Style No. 500 releas- ing device, per 100 feet.....	3 lbs.	2.00
356—Weight Holder for No. 386 weights, each.....	2 lbs.	1.00
363—Pyramid Stay Roller, each .....	$4\frac{1}{4}$ lbs.	1.20
365—Releasing Device for Style No. 500, each.....	$6\frac{1}{2}$ lbs.	3.00
370—Attachment for cord or chain, each.....	2-5 lb.	.10
374—Weight Holder for No. 384 weights, each.....	2-5 lb.	.10
384—Counterbalance Weight, 4 in. diam., $2\frac{1}{4}$ , $3\frac{1}{4}$ and $6\frac{1}{4}$ lbs. sizes, per lb.....		.06
386—Counterbalance Weight, 6 in. diam., $2\frac{1}{2}$ , 5, 10, 20, 30 and 50 lbs. sizes, per lb.....		.06

Packed in bulk without screws or bolts.

For data needed see page 40.



## **DATA NEEDED**

**In Making Quotations or Filling Orders for**

### **Sliding Fire and Warehouse Door Hardware**

*Give number of openings as well as number of doors, and mention whether doors are on one side of wall only or on both sides; and if doors are to be used on both sides of walls, mention whether fixtures can be bolted together through the walls.*

*Give widths and heights of openings.*

*Give thicknesses of doors and walls.*

*Give distances from highest points of openings to nearest obstructions overhead.*

*Mention whether openings are square or arched top.*

*Note No. 1.—If opening is square top, 12 inches headroom is required at the edge of the opening toward which the door slides in closing and  $\frac{3}{4}$  of an inch more for each foot of track beyond that point.*

*Note No. 2.—If opening is arched top, 12 inches headroom is required above the top of the arch and  $\frac{3}{4}$  of an inch more for each foot the track extends beyond the center.*

*Our styles No. 800 (page 28) and No. 900 (page 29) Fire Door Hardware are made for openings having scant headroom.*

*For Vertical Fire Door Hardware, give weights of doors as well as above mentioned data.*



## TABLE OF Counterbalance Weights

For Horizontally Sliding Standard Tin-Clad 2½-inch Fire Doors

### HEIGHT OF THE OPENING

	6' 0"	6' 6"	7' 0"	7' 6"	8' 0"	8' 6"	9' 0"	9' 6"	10' 0"	*
3' 0"	9.46	10.37	10.93	11.65	12.40	13.12	13.86	14.60	15.32	.168
3' 6"	10.79	11.60	12.45	13.28	14.11	14.95	15.77	16.60	17.45	.217
4' 0"	12.10	13.02	13.96	14.89	15.82	16.76	17.70	18.63	19.55	.272
4' 6"	13.42	14.45	15.49	16.51	17.56	18.58	19.61	20.65	21.68	.333
5' 0"	14.76	15.88	17.03	18.15	19.29	20.42	21.55	22.68	23.82	.401
5' 6"	16.09	17.32	18.56	19.80	21.03	22.26	23.49	24.73	25.96	.475
6' 0"	17.44	18.77	20.10	21.45	22.78	24.10	25.45	26.77	28.10	.556
6' 6"	18.80	20.23	21.67	23.09	24.54	25.95	27.34	28.83	30.26	.642
7' 0"	20.16	21.68	23.22	24.77	26.28	27.81	29.37	30.88	32.42	.734
7' 6"	21.53	23.14	24.79	26.41	28.05	29.68	31.33	32.95	34.58	.834
8' 0"	22.88	24.63	26.39	28.09	29.82	31.56	33.28	35.08	36.73	.938
8' 6"	24.30	26.13	27.95	29.77	31.60	33.44	35.27	37.13	38.93	1.050
9' 0"	25.67	27.61	29.52	31.46	33.39	35.32	37.27	39.20	41.10	1.170
9' 6"	27.04	29.01	31.13	33.15	35.18	37.19	39.24	41.29	43.29	1.290
10' 0"	28.46	30.57	32.73	34.84	36.97	39.11	41.23	43.33	45.52	1.420

\* Weight required for triangle to be subtracted when considering level track doors.

To determine weight of door, multiply above figures by 20.

To determine area of door in square feet, multiply above figures by 10 and divide by 4.

To determine cost of door without hardware, at price of 50c per square foot, multiply above figures by 10 and divide by 8.

Allith Manufacturing Company, Chicago, U. S. A.

## Lengths of Wall Bolts Required for Horizontally Sliding and Vertical Fire Door Hardware

All bolts are  $\frac{3}{4}$ -inch diameter machine bolts

(W is equal to the thickness of wall in inches)

DOORS ONE SIDE OF WALL		DOORS BOTH SIDES OF WALL	
W plus $1\frac{3}{4}$ " i. e. 2"	Nos. 3C or 3C2 Center supports.....	W plus $1\frac{1}{4}$ " i. e. 2"	
W " $3\frac{7}{8}$ " " 4"	No. 340 Combined front bumper.....	W " $5\frac{1}{2}$ " " 6"	
W " " " "	No. 307 Front binder*	W " " " "	
W " 1"	No. 364 Stay roller.....	W minus 1"	
W " $2\frac{1}{4}$ " " 3"	No. 345 Combined rear bumper.....	W plus $2\frac{1}{4}$ " " 3"	
W " " " "	No. 347 Combined rear bumper.....	W " " " "	
W " $7\frac{3}{8}$ " " 8"	No. 326 Cord pulley.....	W " $12\frac{3}{8}$ " " 13"	
W " 2"	No. 9C Center support.....	W " $1\frac{5}{8}$ " " 2"	
W " $6\frac{5}{8}$ " " 7"	No. 9E End support.....	W " 11"	
W " $3\frac{7}{8}$ " " 4"	No. 328 Front bumper.....	W " $5\frac{1}{2}$ " " 6"	
W " $1\frac{7}{8}$ " " 2"	No. 329 Rear bumper.....	W " $1\frac{1}{2}$ " " 2"	
W " $5\frac{1}{8}$ " " 6"	No. 331 Combined front binder.....	W " 8"	
W " $4\frac{5}{8}$ " " 5"	No. 3E End support, for $2\frac{1}{2}$ " door.....	W " $6\frac{7}{8}$ " " 7"	
W " $4\frac{3}{8}$ " " 5"	No. 3E2 End support, for 2" door.....	W " 6"	
W " $1\frac{7}{8}$ " " 2"	No. 365 Releasing device.....	W " $1\frac{7}{8}$ " " 2"	
W " $6\frac{1}{8}$ " " 7"	No. 2VC Center support.....	W " $9\frac{7}{8}$ " " 10"	
W " " " "	No. 2VE End support.....	W " 10"	
W " $6\frac{1}{4}$ " " 7"	No. 357 Wire rope pulley.....	W " $10\frac{5}{8}$ " " 11"	

### WALL BOLTS REQUIRED FOR

No. 500 (Page 24)	No. 700 (Page 25)	No. 600 (Page 26)	No. 800 (Page 28)	No. 900 (Page 29)	No. 1700 (Page 30)
? No. 3C	? No. 3C	? No. 3C	? No. 3C	? No. 9C†	? No. 3C
1 No. 340	1 No. 340	1 No. 340	1 No. 340	2 No. 9E	1 No. 331
2 No. 307 *	2 No. 307 *	2 No. 307 *	2 No. 307 *	2 No. 307 *	2 No. 364
1 No. 364	1 No. 364	1 No. 364	1 No. 364	1 No. 364	2 No. 347
1 No. 345	1 No. 347	1 No. 347	1 No. 347	2 No. 326	
		1 No. 326	1 No. 326	1 No. 328	
				1 No. 329	

\* When necessary to fasten binder No. 307 with two bolts, length of second one is: W plus  $2\frac{1}{8}$ " i. e. 3" for doors one side of wall;  
W " 2" " " both " " "

### NUMBER OF CENTER SUPPORTS REQUIRED FOR

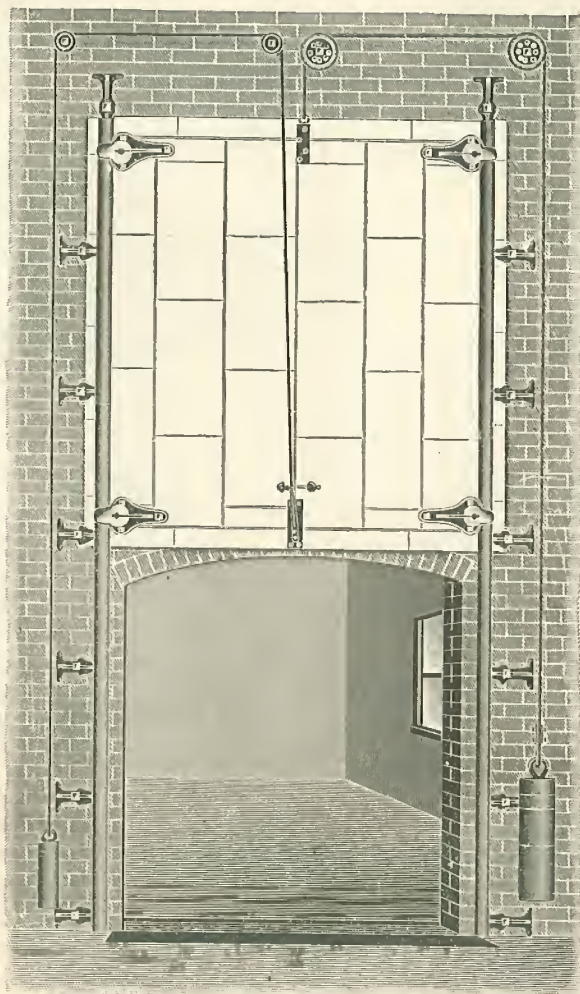
SINGLE DOORS		STYLE No. 1700	
Openings 3' 9" and under	3	Openings 3' 9" and under	4
" 3' 9" to 4' 0"	4	" 3' 9" to 4' 0"	4
" 4' 0" to 6' 0"	5	" 4' 0" to 6' 0"	6
" 6' 0" to 6' 3"	7	" 6' 0" to 6' 3"	6
" 6' 3" to 8' 0"	8	" 6' 3" to 8' 0"	8
" 8' 0" to 10' 0"	10	" 8' 0" to 10' 0"	10

† Style No. 900 requires one more center support.



Allith Manufacturing Company, Chicago, U. S. A.

## Reliable Vertical Fire Door Hardware

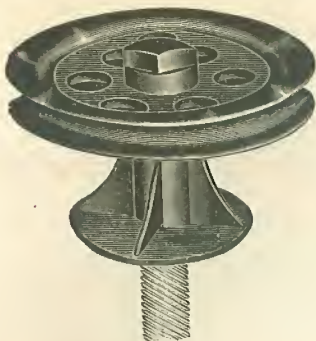


Reliable vertical fire door fixtures are more complete than any others upon the market, and are, moreover, the least expensive good fixtures.

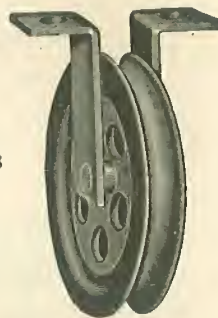
Note that the track is set outside the door, so that the whole track assists in holding the door up to the opening in case of fire.



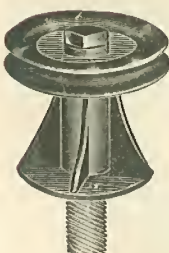
**Allith Manufacturing Company, Chicago, U. S. A.**



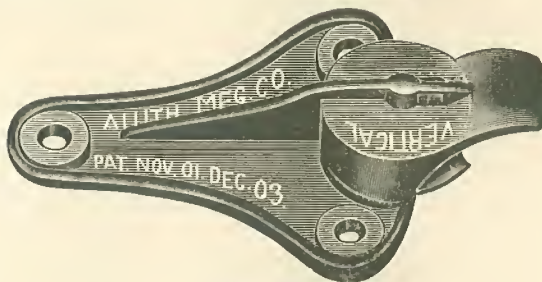
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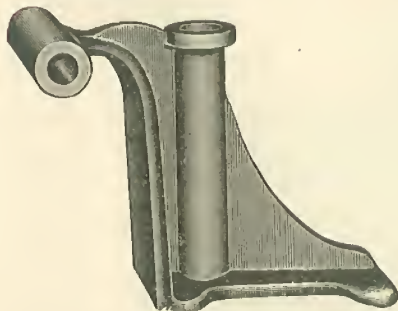
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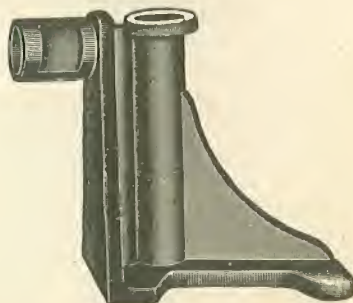
No. 326



No. 360



No. 2 VC



No. 2 VE



No. 359



No. 362



No. 356



Nos. 384 & 386

## Reliable Vertical Fire Door Hardware

A set of Reliable vertical fire door fixtures consists of two 8-inch roller bushed pulleys for use in applying heavy counterbalance weight, two smaller brass bushed pulleys for applying releasing weight, one releasing weight, braided sash cord, fusible link and connections, four door guides, one wire rope strap, two half-oval chafe strips, two reinforcing strips, one raised and one flush pull, and all bolts for attaching parts to doors.

Track, wire rope, wire rope clamps, counterbalance weight, weight holder, and wall bolts are not included in the set of fixtures.

Nos.	Weights	Prices
380—Reliable Vertical Door Fixtures, per set...	94 lbs.	\$12.00
2V—Reliable Vertical Door Track, with supports, per foot .....	2 lbs.	.25
(Track required is four times the height of opening plus eight inches.)		
381— $\frac{3}{8}$ -inch Wire Rope, per 100 feet.....	28 lbs.	14.00
382—Wire Rope Clamp (four required), each...	1-5 lb.	.40
386—Counterbalance Weight, 6 in. diam., per lb...		.06
356—Weight Holder, each .....	2 lbs.	1.00

### VERTICAL FIRE DOOR HARDWARE PARTS

Nos.	Weights	Prices
2VC—Center Support for No. 2V track, each.....	2 $\frac{3}{4}$ lbs.	\$0.50
2VE—End Support for No. 2V track, each.....	2 $\frac{1}{2}$ lbs.	.50
303—Link Bracket, each.....	3-5 lb.	.10
304—Fusible Link with "S" Hooks, each.....	$\frac{1}{2}$ oz.	.30
305—Raised Door Pull, each.....	$\frac{3}{4}$ lb.	.15
306—Flush Door Pull, each.....	1 $\frac{1}{2}$ lbs.	.20
315—Half-Oval Chafe Strip, each.....	2-5 lb. per ft.	.35
316—Reinforcing Strip, each .....	$\frac{1}{2}$ lb. per ft.	.35
323—Sash Cord, per 100 feet.....	2 $\frac{1}{4}$ lbs.	1.50
326—Cord Wall Pulley, each.....	3 $\frac{3}{4}$ lbs.	.80
357—Wire Rope Wall Pulley, each.....	8 $\frac{1}{2}$ lbs.	2.00
357X—Wire Rope Wall Pulley with brace, each...	13 $\frac{1}{2}$ lbs.	3.50
358—Wire Rope Ceiling Pulley, each.....	10 $\frac{1}{4}$ lbs.	2.00
359—Cord Ceiling Pulley, each.....	3 lbs.	.75
360—Door Guide, each.....	3 $\frac{1}{4}$ lbs.	1.00
362—Rope Strap, each .....	3 $\frac{1}{2}$ lbs.	.50
374—Weight Holder for No. 384 weights, each...	2-5 lb.	.10
384—Counterbalance Weight, 4 in. diam., per lb...		.06

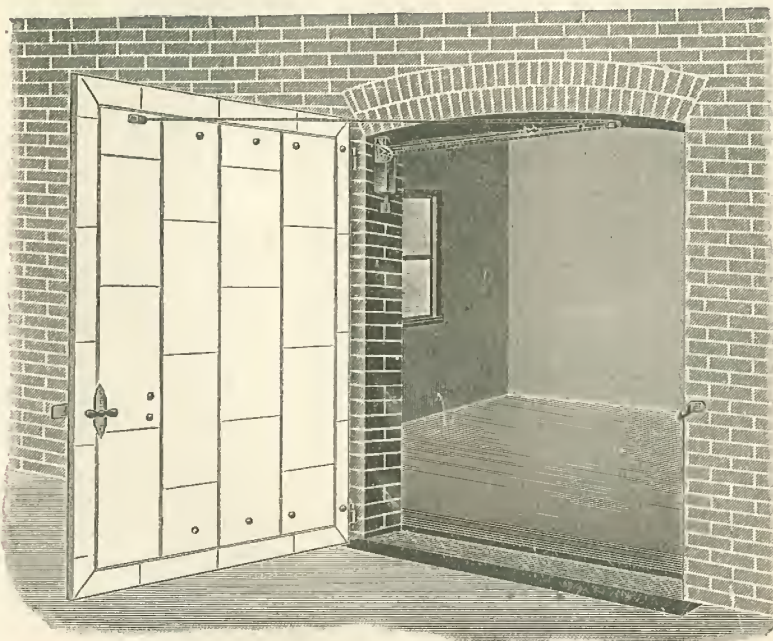
Packed in bulk without screws or bolts.

For data needed see page 40.



Allith Manufacturing Company, Chicago, U. S. A.

## Reliable Single Swinging Fire Door Hardware



Our automatic closing device, original in many respects, is simple and efficient in operation.

The weights cannot become loosened until the link is fused or the link chain broken.

The latch which we now supply regularly is the standard triple latch instead of the single latch illustrated.

Nos. 461, 461R, 463 and 463R sets each consist of one pair hinges with pins and eye blocks, one latch complete and one automatic closing device, together with all bolts necessary for attaching door parts to door and expansion bolts for attaching automatics to wall. Bolts (if required) for attaching hinge eye blocks and bolts for latch keepers are not included.

Doors over 6 feet wide or 7 feet high require  $1\frac{1}{2}$  pairs hinges with pins and eye blocks.

For larger illustrations of parts see page 46.

For data needed see page 50.

Nos.	Weights	Prices
461—Single Swinging Flush Fire Door Hardware with single latch No. 416, per set.....	$52\frac{1}{2}$ lbs.	\$10.80
463R—Single Swinging Overlap Fire Door Hardware with single latch No. 416R, per set.....	53 lbs.	12.00
463—Single Swinging Flush Fire Door Hardware with triple latch No. 417, per set.....	67 lbs.	13.80
463R—Single Swinging Overlap Fire Door Hardware with triple latch No. 417R, per set....	$70\frac{1}{4}$ lbs.	15.00

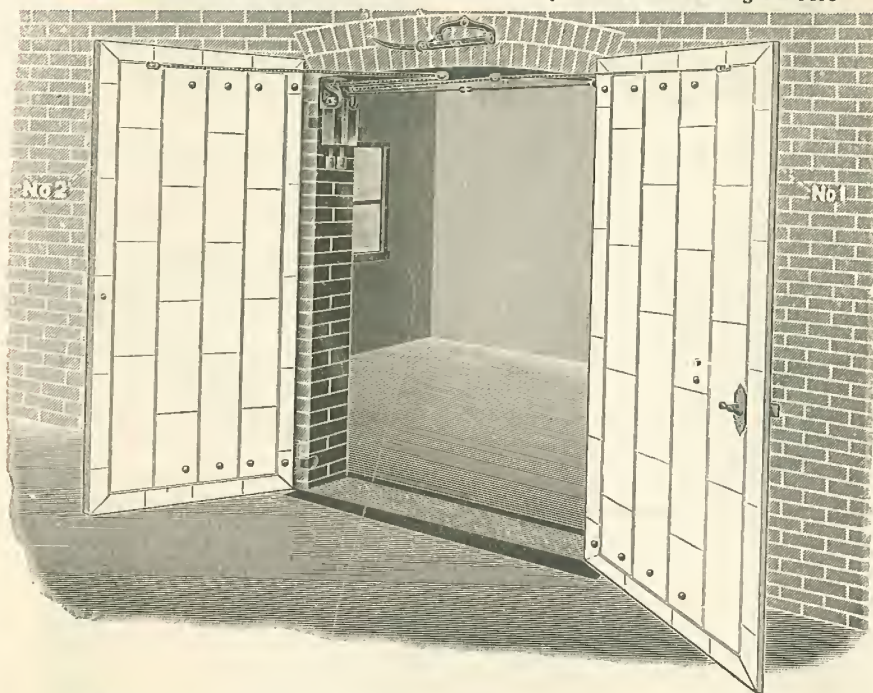
If width of opening exceeds 36 inches, add to price of any of above sets \$0.06 for each additional inch.



Allith Manufacturing Company, Chicago, U. S. A.

## Reliable Double Swinging Fire Door Hardware

Doors Made in Pairs Do Not Furnish as Satisfactory Protection as Single Doors



Similar to our single swinging hardware, but provided with an interchangeable automatic closing device so that either door can be arranged to close first without the possibility of interference by the other door.

The latch which we now supply regularly is the standard triple latch instead of the single latch illustrated.

Nos. 466, 466R, 469 and 469R sets each consist of two pairs hinges with pins and eye blocks, one latch complete and one automatic closing device, together with all bolts necessary for attaching parts to doors and expansion bolts for attaching automatics to wall. Bolts (if required) for attaching hinge eye blocks are not included.

Doors over 6 feet wide or 7 feet high require 1½ pairs hinges with pins and eye blocks.

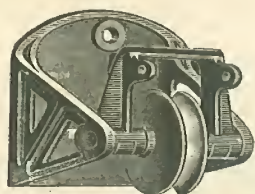
For larger illustrations of parts see page 46.

For data needed see page 50.

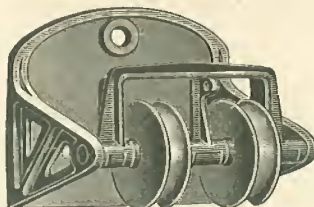
Nos.	Weights	Prices
466—Double Swinging Flush Fire Door Hardware with single latch No. 416, per set.....	110½ lbs.	\$16.00
466R—Double Swinging Overlap Fire Door Hardware with single latch No. 416, per set..	111 lbs.	18.00
469—Double Swinging Flush Fire Door Hardware with triple latch No. 417, per set.....	126 lbs.	19.00
469R—Double Swinging Overlap Fire Door Hardware with triple latch No. 417, per set..	127½ lbs.	21.00

If width of opening exceeds 72 inches, add to price of any of above sets \$0.06 for each additional inch.

**Allith Manufacturing Company, Chicago, U. S. A.**



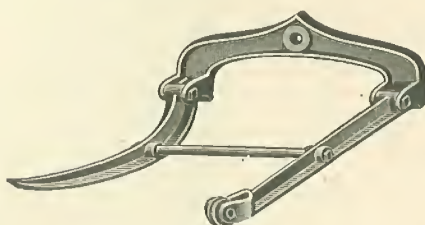
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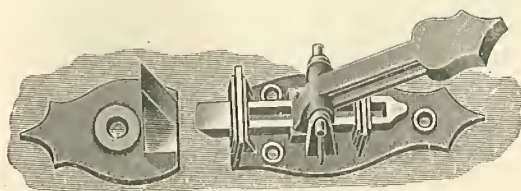
No. 404



No. 409



No. 423



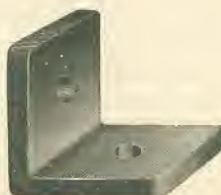
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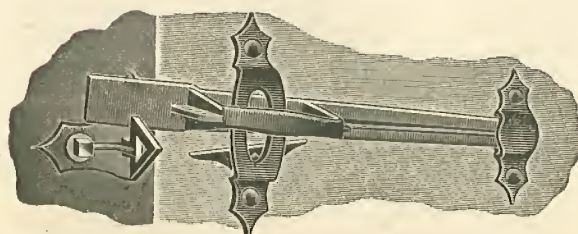
No. 410



No. 402



No. 408



No. 416



No. 405

## Swinging Fire Door Hardware Parts

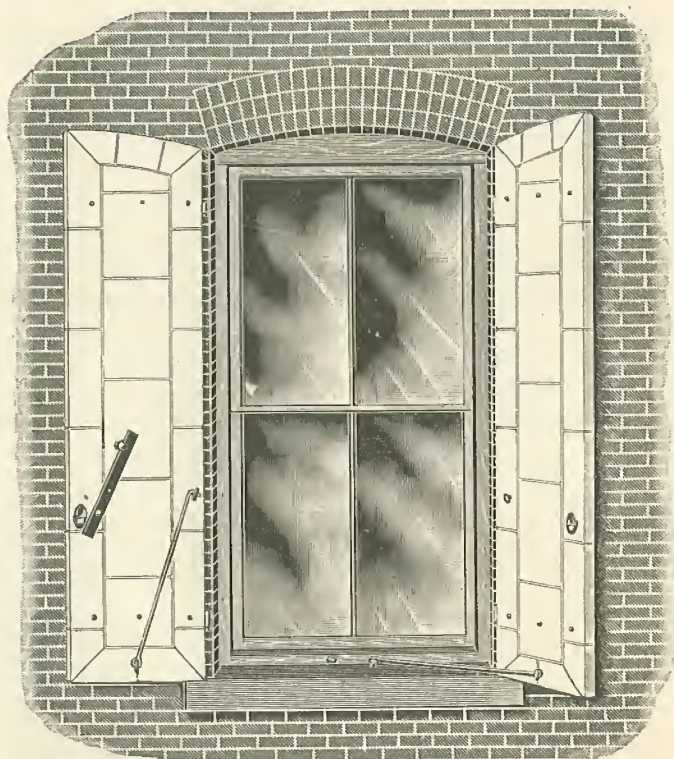
Nos.	Weights	Prices
304—Fusible Link with "S" Hooks, each.....	1-3 lb.	\$0.30
324—Sash Chain, per 100 feet.....	7 lbs.	5.00
403—Single Door Pulley Frame and Trip, each....	1¾ lbs.	1.50
404—Double Door Pulley Frame and Trip, each....	2¾ lbs.	2.50
405—Pulley with Expansions for center of opening, each .....	1 lb.	.20
406—Gravity Top Bolt for flush door, each.....	2 lbs.	1.00
406R—Gravity Top Bolt for overlap door, each....	2 lbs.	1.00
408—Chain Holder, each .....	¼ lb.	.20
409—Closing Weight for automatic device, each... 10	lbs.	1.50
410—Bob Weight for automatic device, each.....	1 lb.	.30
416—Single Latch for flush door, each.....	1¾ lbs.	1.00
416R—Single Latch for overlap door, each.....	1¾ lbs.	1.00
417—Triple Latch for flush door, each.....	17 lbs.	4.50
417R—Triple Latch for overlap door, each.....	17 lbs.	4.50
418—Adjustable Link Holder, each.....	1-3 lb.	.80
423—Double Door Control, each.....	5 lbs.	2.50
419—Flat Hinges, 2½x¾ inches, per pair.....	6½ lbs.	2.20
	per ft.	
419R—Offset Hinges, 2½x¾ inches, per pair.....	6½ lbs.	3.00
	per ft.	
If length of hinge exceeds 27 inches, add \$0.06 per pair for each additional inch.		
432—Flat Eye Blocks, 2½x¾ inches, per pair....	9½ lbs.	1.00
432R—Offset Eye Blocks, 2½x¾ inches, per pair...	9½ lbs.	1.80
402—Malleable Iron Eye Blocks, per pair.....	3½ lbs.	.80
Packed in bulk without screws or bolts.		
For data needed see page 50.		



Allith Manufacturing Company, Chicago, U. S. A.

## Reliable Swinging Fire Shutter Hardware

For Single or Double Swinging Shutters



Our fire shutter hardware is of the best material and workmanship.

The shutter bar which we now supply regularly for double swinging shutters is the standard double bar instead of the single bar illustrated.

Nos. 484 and 484R sets each consist of one pair hinges with pins and eye blocks, two hooks with eyes to hold shutter closed, and one hook with eyes to hold shutter open.

For data needed see page 50.

Nos.

Weights Prices

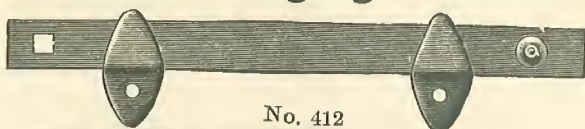
484—Single Swinging Flush Fire Shutter Hardware,	
per set .....	20½ lbs. \$3.20
484R—Single Swinging Overlap Fire Shutter Hardware,	
per set .....	20½ lbs. 3.80

If width of opening exceeds 22 inches, add to price of either of above sets \$0.03 for each additional inch.

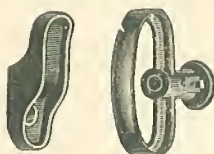
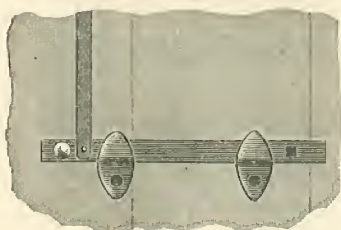
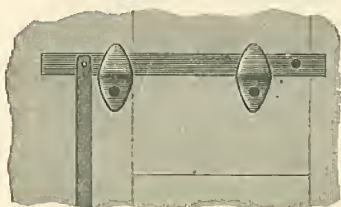


Allith Manufacturing Company, Chicago, U. S. A.

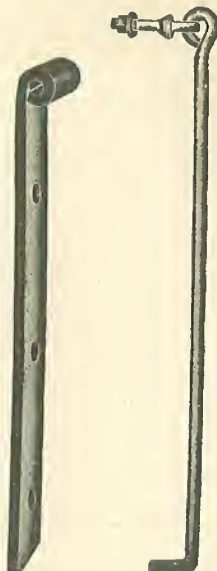
## Reliable Swinging Fire Shutter Hardware



No. 412



No. 413



No. 411

No. 414

Nos. 488, 488R, 499 and 499R sets each consist of two pairs hinges with pins and eye blocks, one shutter bar complete, and two hooks with eyes to hold shutters open.

For data needed see page 50.

Nos.

Weights Prices

488—Double Swinging Flush Fire Shutter Hardware with single bar No. 412, per set....	35	lbs.	\$5.50
488R—Double Swinging Overlap Fire Shutter Hardware with single bar No. 412, per set....	35	lbs.	6.50
499—Double Swinging Flush Fire Shutter Hardware with double bar No. 413, per set....	42½	lbs.	7.00
499R—Double Swinging Overlap Fire Shutter Hardware with double bar No. 413, per set....	42½	lbs.	8.00
If width of opening exceeds 44 inches, add to price of any of above sets \$0.03 for each additional inch.			

### SWINGING FIRE SHUTTER HARDWARE PARTS

Nos.

Weights Prices

411—Flat Hinges, 1¾x5/16 inches, per pair.....	3¾	lbs.	\$1.50
		per ft.	
411R—Offset Hinges, 1¾x5/16 inches, per pair.....	3¾	lbs.	1.90
		per ft.	

If length of hinge exceeds 17 inches, add \$0.03 per pair for each additional inch.

424—Flat Eye Blocks, 1¾x5/16 inches, per pair...	3¾	lbs.	.70
424R—Offset Eye Blocks, 1¾x5/16 inches, per pair...	3¾	lbs.	1.70
402—Malleable Iron Eye Blocks, per pair.....	3½	lbs.	.80
412—Single Shutter Bar with handle and two keepers, each .....	4	lbs.	1.00
413—Double Shutter Bar with handle and four keepers, each .....	9	lbs.	2.50
414—Hook with Eyes to hold shutters open, each..	1¼	lbs.	.50
422—Hook with Eyes to hold shutters closed, each	1¼	lbs.	.50
Packed in bulk without screws or bolts.			



**Allith Manufacturing Company, Chicago, U. S. A.**

## **DATA NEEDED**

**In Making Quotations or Filling Orders for**

### **Swinging Fire Door and Shutter Hardware**

*Give number of openings as well as number of doors or shutters, and mention whether doors are on one side of wall only or on both sides; and if doors are to be used on both sides of walls, mention whether fixtures can be bolted together through the walls.*

*Give widths and heights of openings.*

*Give thicknesses of doors or shutters and walls.*

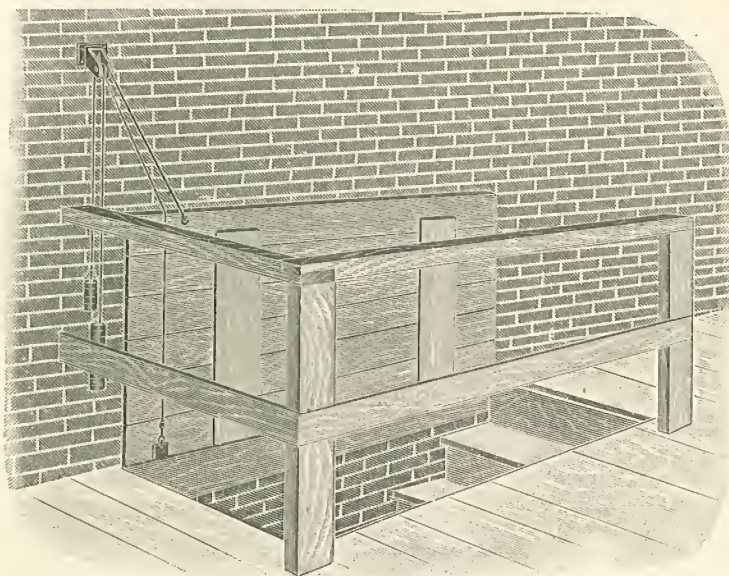
*Mention whether openings are square or arched top.*

*Mention whether doors or shutters are flush or overlap, and if overlap how much they overlap on all sides.*

*If hinge pins or eye blocks are already set, give diameter of same; give distance from center of pin to face of wall, and distance from center of pin to edge of opening.*



## Reliable Trap Door Hardware



Stairways or shafts not enclosed in brick or otherwise fireproof, should always be fitted with trap doors equipped with fusible link and counterbalance weight. If the trap doors are large and heavy they should be fitted with two weights, a small weight attached by means of a fusible link and cord and a larger one attached with chain to prevent the door from closing too rapidly on fusing of the link. A stop should always be arranged to prevent the trap door from swinging as far as the vertical line when opened.

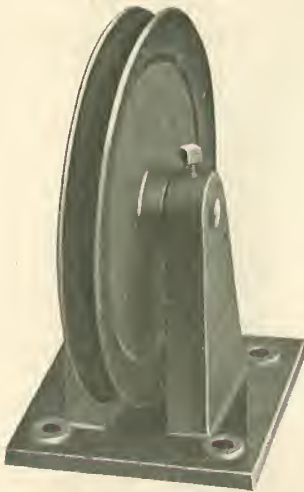
Common strap or T hinges, which can be bought at any hardware store, may be used; and if desired, common sash or window weights may be used for the counterbalance weights.

Nos.	Weights.	Prices.
304—Fusible Link with "S" Hooks, each.....	$\frac{1}{2}$ oz.	\$0.30
323—Sash Cord, per 100 feet .....	$2\frac{1}{4}$ lbs.	1.50
374—Weight Holder for No. 384 weights, each.....	2-5 lb.	.10
384—Counterbalance Weight, 4 in. diam., per lb.....		.06
408—Link bracket, each.....	$\frac{1}{4}$ lb.	.20
451—Single Pulley, each .....	1 1-3 lbs.	.50
452—Double Pulley, each .....	2 lbs.	.70
Packed in bulk without screws or bolts.		

## Sash and Door Pulleys



No. 123



No. 141



No. 142

The pulleys shown here, representing products brought out to meet certain requirements, serve to call attention to the fact that we are prepared to furnish special hardware and shall welcome your specifications for any goods kindred to our lines.

Our No. 123 triple sash pulley is frequently used in large shop windows where four sash are placed one above another, the top and bottom sash and also the two center sash, counterbalancing with each other, an arrangement which proves very satisfactory.

No. 123 Sash pulley has hardened steel roller bearings.

Nos. 141 Single and 142 double pulleys are used with heavy vertical sliding doors in freight stations, warehouses, etc., where they are set securely on substantial supports.

No. 123 Sash pulley: 19/32 in. wide by 9 3/4 in. long by 2 5/8 in. high; wheels, 2 1/2 in. diam.

No. 141 Door pulley; base, 8 1/8 in. wide by 8 1/8 in. long; height over all, 14 in.; wheel, 12 1/2 in. diam.

No. 142 Door pulley; base, 8 3/8 in. wide by 9 5/8 in. long; height over all, 14 in.; wheels, 12 1/2 in. diam.

Nos.	Weights	Prices
123—Triple Wheel Sash Pulley, each.....	5 1/4 lbs.	\$2.00
141—Single Wheel Door Pulley, each.....	46 1/2 lbs.	11.50
142—Double Wheel Door Pulley, each.....	70 lbs.	21.00

Packed in bulk without screws or bolts.

## **Reliable Round Track Merchandise Carriers for Factories and Warehouses**

The Reliable merchandise carriers are the simplest, strongest and easiest-running carriers made.

They are made from the highest grade malleable iron and are guaranteed in their various sizes to carry safely any loads from 250 lbs. to 4,000 lbs.

The wheels of all carriers have hardened steel axles, washers and roller bearings. All connecting bars are fitted with double swivels, allowing the carriers to run freely round curves and also permitting the loads to be turned in any direction desired.

The track is made from the Reliable double tubular steel track, with double supports, ceiling plates and parting pieces through which bolts pass, making a very strong double-tread track.

The track may be curved to any radius not less than two feet.

We manufacture two and three-way switches, and in fact, all necessary fixtures for the complete installation of such equipment.

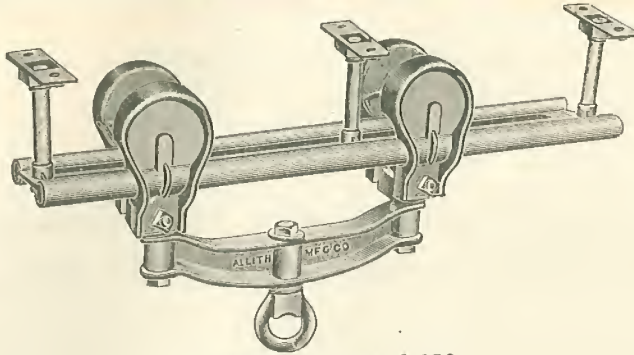
This work is handled by experienced engineers whose services are devoted to designing and planning overhead carrying systems.

Although the equipment described briefly on the following pages is that generally used, we furnish modifications of it to suit conditions, and shall be glad to quote on whatever equipment may be required. Tell us what you wish to do, giving us information as to sizes and weights of loads, and if possible send plans of building to assist us in laying out a proper carrying track system.

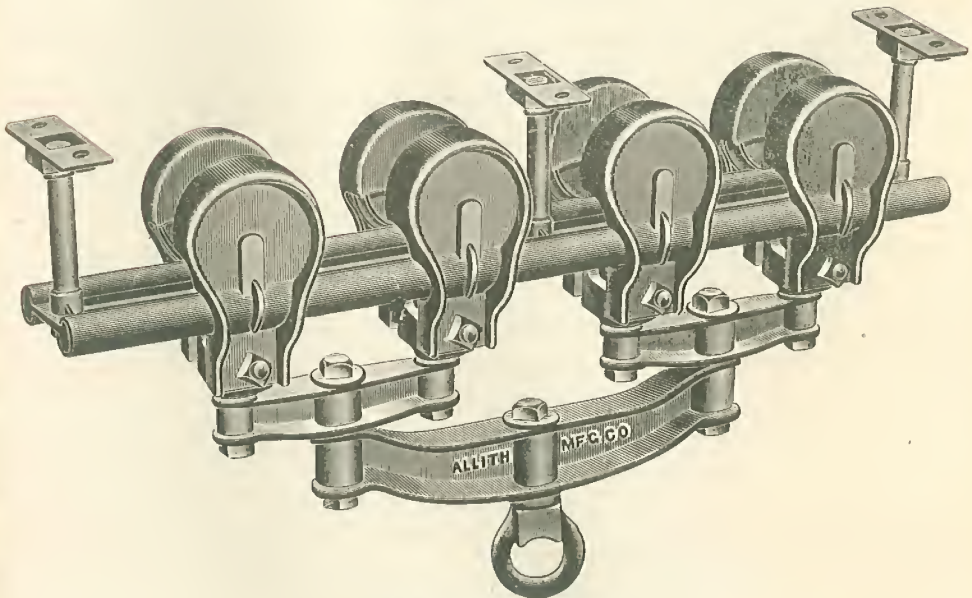


Allith Manufacturing Company, Chicago, U. S. A.

## Merchandise Carrier Equipment



Nos. 110, 120 and 130



Nos. 210, 220 and 230

- No. 110 Carrier,  $5\frac{3}{4}$  in. wide,  $16\frac{1}{2}$  in. long, 13 in. high.
- No. 120 Carrier,  $6\frac{3}{4}$  in. wide, 19 in. long, 15 in. high.
- No. 130 Carrier,  $7\frac{1}{4}$  in. wide, 21 in. long, 17 in. high.
- No. 210 Carrier,  $5\frac{3}{4}$  in. wide,  $23\frac{1}{2}$  in. long, 15 in. high.
- No. 220 Carrier,  $6\frac{5}{8}$  in. wide, 27 in. long,  $17\frac{1}{4}$  in. high.
- No. 230 Carrier,  $7\frac{1}{2}$  in. wide, 29 in. long,  $19\frac{1}{2}$  in. high.
- Nos. 110 and 210 Carrier wheels, 2 inches diameter.
- Nos. 120 and 220 Carrier wheels,  $2\frac{1}{2}$  inches diameter.
- Nos. 130 and 230 Carrier wheels,  $4\frac{1}{2}$  inches diameter.
- No. 112 Two-way switch, 31 in. wide, 27 in. long, 6 in. high.
- No. 113 Three-way switch, 56 in. wide, 27 in. long, 6 in. high.
- No. 222 Two-way switch, 31 in. wide, 27 in. long, 9 in. high.
- No. 223 Three-way switch, 56 in. wide, 27 in. long, 9 in. high.
- No. 332 Two-way switch, 31 in. wide, 27 in. long, 9 in. high.
- No. 333 Three-way switch, 56 in. wide, 27 in. long, 9 in. high.



## Merchandise Carrier Equipment

With Nos. 110 or 210 carriers, track may be placed within 4 inches of ceiling.

With Nos. 120 or 220 carriers, track may be placed within 5½ inches of ceiling.

With Nos. 130 or 230 carriers, track may be placed within 7 inches of ceiling.

With No. 11Z track use two ¾-inch lag screws or bolts for each ceiling plate and ½-inch machine bolt for fastening track support to ceiling plate.

With No. 22Z track use two ½-inch lag screws or bolts for each ceiling plate and ⅝-inch machine bolt for fastening track support to ceiling plate.

With No. 33Z track use two ⅝-inch lag screws or bolts for each ceiling plate and ¾-inch machine bolt for fastening track support to ceiling plate.

As the parting pieces and bolts connecting the track supports proper with the ceiling plates vary in length according to the distance between the ceiling and the track, we furnish prices of same on application.

Nos.	Weights	Prices
110—Merchandise Carrier, each.....	21 lbs.	\$ 6.00
Capacity with No. 11Z track, 500 lbs.		
120—Merchandise Carrier, each.....	31 lbs.	8.40
Capacity with No. 22Z track, 1,200 lbs.		
130—Merchandise Carrier, each.....	46 lbs.	13.20
Capacity with No. 22Z track, 1,200 lbs.		
Capacity with No. 33Z track, 2,500 lbs.		
210—Merchandise Carrier, each.....	37 lbs.	12.00
Capacity with No. 11Z track, 750 lbs.		
220—Merchandise Carrier, each.....	61 lbs.	19.20
Capacity with No. 22Z track, 2,000 lbs.		
230—Merchandise Carrier, each.....	87 lbs.	28.80
Capacity with No. 33Z track, 4,000 lbs.		
11Z—Merchandise Carrier Track with supports every eighteen inches, per foot.....	2 lbs.	.36
22Z—Merchandise Carrier Track with supports every eighteen inches, per foot.....	4½ lbs.	.48
33Z—Merchandise Carrier Track with supports every eighteen inches, per foot.....	6 lbs.	.72
11ZU—Curved Merchandise Carrier Track with supports every eighteen inches, per foot....	2 lbs.	1.20
22ZU—Curved Merchandise Carrier Track with supports every eighteen inches, per foot....	4½ lbs.	1.44
33ZU—Curved Merchandise Carrier Track with supports every eighteen inches, per foot....	6 lbs.	1.80
112—Two-Way Switch for No. 11Z track, each...120	lbs.	50.00
113—Three-Way Switch for No. 11Z track, each..180	lbs.	60.00
222—Two-Way Switch for No. 22Z track, each...125	lbs.	50.00
223—Three-Way Switch for No. 22Z track, each..185	lbs.	60.00
332—Two-Way Switch for No. 33Z track, each...130	lbs.	50.00
333—Three-Way Switch for No. 33Z track, each..190	lbs.	60.00



## **Reliable Rolling Store Ladders**

### **Time and Labor Savers**

Every live business man realizes the advantage of utilizing his wall spaces with shelving for the storage of goods which can be systematically arranged within quick and easy reach through use of rolling store ladders.

Reliable rolling store ladders, made of carefully selected kiln-dried oak, handsomely finished and equipped with perfectly constructed fixtures, fulfill every requirement.

Reliable ladders roll easily, cannot jump the track, do not bind and are perfectly noiseless. They are built to wear and will last a lifetime.

Each ladder step is grooved into the stiles and fastened with four blued steel screws, and at every fourth step a stay-rod is bolted through both stiles for additional strength.

In finishing the ladders they are first rubbed smooth, then filled, rubbed down, and then varnished.

The fixtures are made of non-breakable malleable iron and steel, durably finished in black enamel. The steel-cased hard fibre track wheels, with perfectly grooved tread, run smoothly and easily with no side-friction.

Our ladders run on enameled round steel track, which is stiffer and more durable than any other kinds or styles and will not warp, twist, or sag. The steel is extra strong, high carbon, round or tubular in shape, with a slot in the rear allowing the insertion of the malleable iron track supports, which may be spaced to suit any requirements. Track and supports, like the ladder fixtures, are finished attractively in rich black enamel.

The track supports for the side wall ladders are regularly made in two styles, upright and shelf; the upright style for attaching to the uprights dividing the shelving into compartments, and the shelf style for attaching to the shelves themselves. With the overhead ladder track we furnish substantial ceiling supports.

Equipped with the latest tools and machinery, and employing only skilled workmen, we are enabled to manufacture perfect ladders, and we guarantee the best materials and workmanship throughout. Our line, the most complete on the market, consists of four regular styles, but we are prepared to furnish this equipment to meet any special requirements in style or finish. Estimates on special work gladly furnished on request.

Unless otherwise specified, we furnish our ladders in a medium golden oak finish, which we can, however, without extra charge, furnish either lighter or darker if desired. If you wish us to match the finish of other woodwork, we suggest that you send us a wood sample showing same, for otherwise we cannot guarantee to furnish exactly the shade desired.



**Allith Manufacturing Company, Chicago, U. S. A.**

## Reliable Rolling Store Ladders

### Measurements

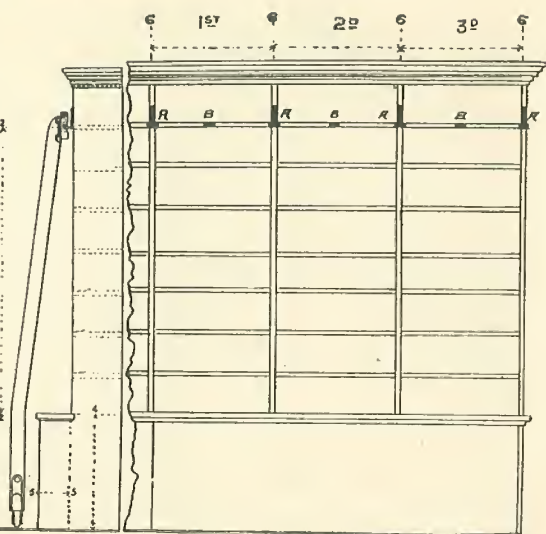
Distance "2 to 2" indicates height from top of base shelf to center of track.

Distance "3 to 3" indicates height from floor to center of track.

Distance "4 to 4" indicates height from floor to top of base shelf.

Distance "5 to 5" indicates projection of base shelf or distance from the front edge of base shelf to the front of the shelving proper.

Distance "6 to 6" indicates distances center to center between the uprights dividing the shelving into compartments.



Track supports "A" are the upright style, and track supports "B" the shelf style.



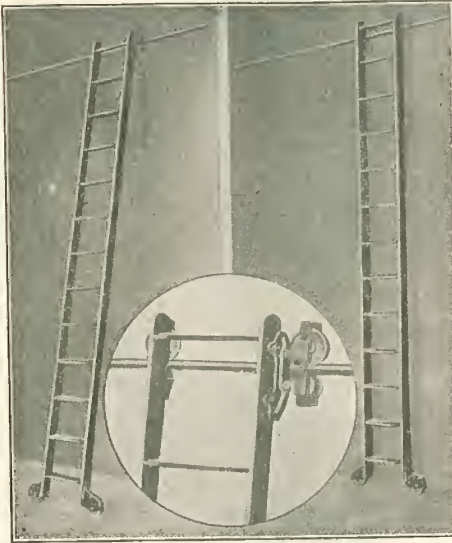
Shelf Style Center Track Support.

The upright style track supports resemble closely those illustrated on page 12.

To avoid delays in filling orders, be careful to follow our suggestions as much as possible, and furthermore give us all the necessary measurements.



## Reliable Straight Side Ladder No. 80



Our most popular style—one that we recommend particularly wherever shelving will permit. It occupies less floor space than any other, and furthermore throws practically all the weight on the floor instead of on the shelving or ceiling. For durability, strength and safety it cannot be equalled. It operates without track on the floor, an objectionable necessity in some other makes.

If desired, this ladder can be equipped with special upper fixtures suitable for turning corners on curved track, but we recommend for the most satisfactory service that ladders operate on straight runs.

The top fixture is self-adjusting, with a perfect bearing on the track, allowing the ladder to roll easily whether perpendicular or at an angle, to pass over uneven places in the floor, and to be placed close to the shelving when not in use, taking up practically no floor space. The two large floor wheels are rubber-tired, making the ladder perfectly noiseless and easy running.

## Reliable Bent Side Ladder No. 85

(Side view shown in drawing on page 57.)

Similar to our straight side ladder No. 80, but with a bend like our base shelf ladder No. 90 (page 60). This bent side ladder is intended for use where projection of the base shelf is too great to take our straight side ladder satisfactorily; but wherever height from base shelf or counter ledge to track is six feet or more, and projection of base shelf is not over sixteen inches, the straight side ladder is generally preferable, for it is easier to ascend and descend, and occupies very little more floor space.

In ordering straight or bent side ladders, give height from base shelf to center of track, height from floor to base shelf, projection of base shelf, and distances between uprights to which track is attached. If there is no projecting base shelf, the only measurement in height required is the distance from floor to center of track. If there is any variation, give measurements at both ends and center of shelving.

## Allith Manufacturing Company, Chicago, U. S. A.

We suggest that the track be attached to the shelving about three feet below the highest point at which goods are stored, that the track be run level with one line of shelves, and that track supports be spaced not more than four feet apart. With this track the supports are regularly furnished for three-foot spacing. If entire track for side ladders is to run along one line of shelves, shelf supports as well as upright supports can be used, making it unnecessary to give distances between uprights, but we recommend for stability of the track that as many upright supports as possible be used.

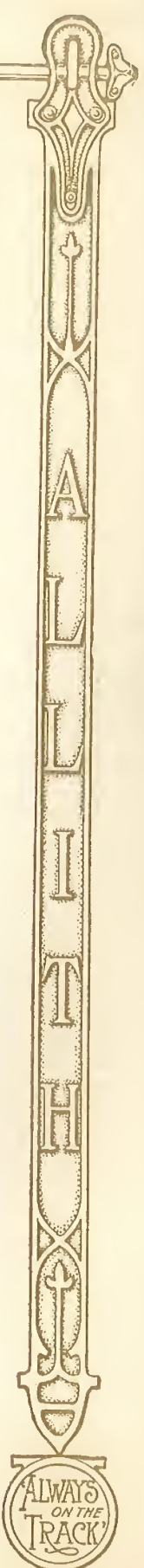
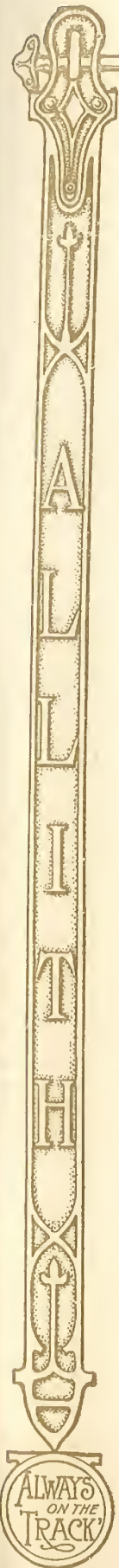
For the best appearance as well as the most satisfactory operation of the ladders, there should be about twelve inches of clear space above the track, which headroom, however, may be reduced if necessary to about seven inches. If headroom is less than twelve inches, mention same.

Although this track is regularly furnished in four, six, eight and ten foot lengths, we can furnish in any lengths up to ten feet to insure having the joints at convenient places for attaching the track supports.

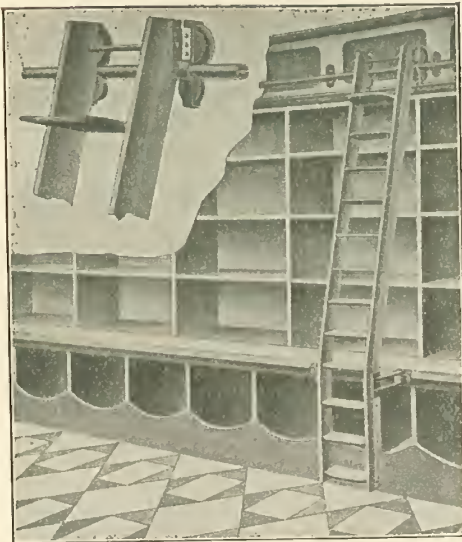
Nos.

Weights Prices

- |  |       |          |         |
|--|-------|----------|---------|
| 80—Oak Straight Side Ladder complete with fixtures, each .....   | 4     | 1-3 lbs. | \$19.00 |
|  |       | per ft.  |         |
| 80X—Oak Straight Side Ladder complete with upper fixtures for operation on curved track, each .....  | 5 1/4 | lbs.     | 25.00   |
|  |       | per ft.  |         |
| 85—Oak Bent Side Ladder complete with fixtures, each .....   | 4     | 1-3 lbs. | 20.00   |
|  |       | per ft.  |         |
| If distance from floor to center of track exceeds ten feet, add \$1.00 per foot to the price of the ladder for each additional foot or fractional part.  |       |          |         |
| 1L—Round Steel Track for straight or bent side ladders, complete with supports, per foot.  | 3/4   | lbs.     | .12     |
| If curved track is desired, allowing the ladder to run along two sections of shelving at right angles to each other, add to the price of the track an extra charge of \$3.00 for such curving. |       |          |         |
| 81—Upper and Lower Fixtures complete for straight or bent side ladders, per set.....   | 13    | lbs.     | 6.00    |
| 82—Upper Fixtures for straight or bent side ladders, per set .....   | 6     | lbs.     | 3.50    |
| 82X—Upper Fixtures for straight side ladder for operation on curved track, per set.....  | 15    | lbs.     | 9.50    |
| 83—Lower Fixtures for straight or bent side ladders, per set.....  | 7     | lbs.     | 3.50    |
| 84—Rubber Tires for floor wheels, per pair.....  | 2-5   | lb.      | 1.00    |



## Reliable Base Shelf Ladder No. 90



This style, intended particularly for special conditions which require that the ladder operate independently of both floor and ceiling, is made with extra strong fixtures, and since all the weight is carried by the track, we supply a larger track with heavier supports than that used with our side ladders.

Wheels on both upper and lower fixtures are steel-cased with hard fibre tread, noiseless in operation, and so applied as to run freely with the minimum of friction. The lower wheels of the upper fixtures prevent derailing or binding.

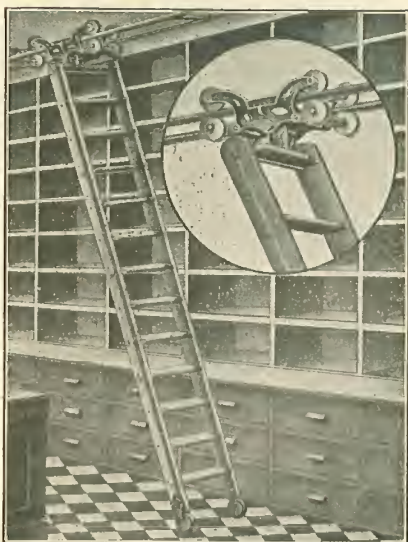
In ordering base shelf ladders, give same measurements as desired when ordering straight or bent side ladders, and follow the same suggestions in regard to location of track, but arrange to space the track supports not farther than three feet apart. With this track the supports are regularly furnished for two-foot spacing. This track, like the side ladder track, can be furnished in any lengths up to ten feet.

Nos.	Weights	Prices
90—Oak Base Shelf Ladder complete with fixtures, each .....	4 lbs.	\$20.00
	per ft.	

If distance from floor to center of track exceeds ten feet, add \$1.00 per foot to the price of the ladder for each additional foot or fractional part.

2L—Round Steel Track for base shelf ladder, complete with supports, per foot.....	1¼ lbs.	.16
91—Upper and Lower Fixtures complete for base Shelf ladder, per set.....	8½ lbs.	6.00
92—Upper Fixtures for base shelf ladder, per set...	5½ lbs.	5.00
93—Lower Fixtures for base shelf ladder, per set..	3 lbs.	2.00

## Reliable Overhead Ladder No. 95



For use with unusually high shelving where side ladders will not meet the requirements.

The self-adjusting upper fixtures are made carefully of malleable iron and provided with eight steel-cased wheels with hard fibre tread, an equipment which operates easily, noiselessly, and cannot jump the track. The floor wheels also have this durable fibre tread.

The double track is applied with ceiling supports which, like those with our other tracks, may be spaced as desired. The supports are regularly furnished for two-foot spacing.

In ordering overhead ladders give height from floor to ceiling.

Nos.

Weights Prices

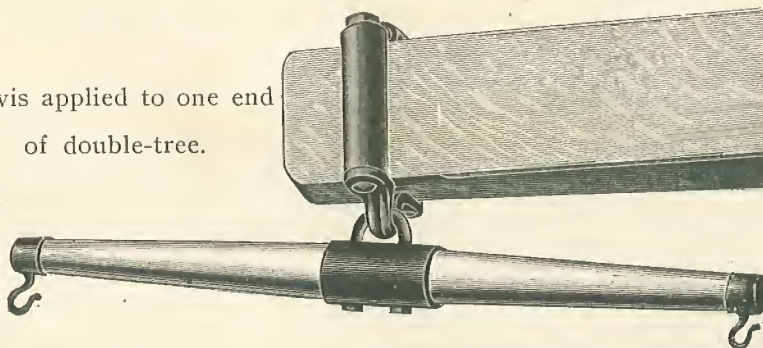
95—Oak Overhead Ladder complete with fixtures,		
each .....	4 lbs.	\$19.00 per ft.

If distance from floor to ceiling exceeds twelve feet, add \$1.00 per foot to the price of the ladder for each additional foot or fractional part.

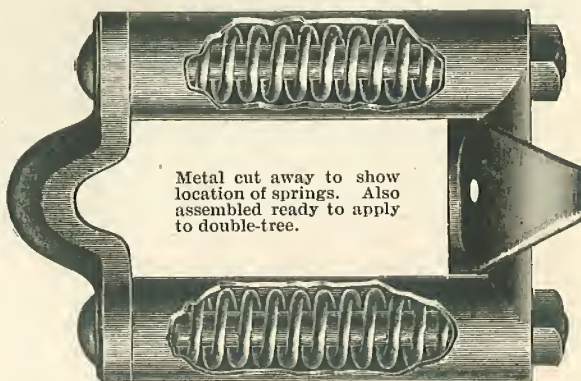
11L—Round Steel Track for overhead ladder, complete with supports, per foot.....	1 3/4 lbs.	.25
96—Upper and Lower Fixtures complete for overhead ladder, per set.....	10 lbs.	8.00
97—Upper Fixtures for overhead ladder, per set...	6 3/4 lbs.	6.50
98—Lower Fixtures for overhead ladder, per set...	3 1/4 lbs.	2.50

## Smith's Spring Clevises

Clevis applied to one end  
of double-tree.



Take the jar from the horses' shoulders.  
Prevent the breakage of harness.  
"Give" enough to encourage the horses in starting a load.  
Prevent sore shoulders.  
Save the price of the bulky sweat pads.  
Save the double-tree from the jerk that breaks.



Prevent the horses from balking.  
Bring the horses nearer to the load.  
Are made of the best malleable iron.  
Have the best oil tempered steel springs.  
Are guaranteed in all their parts.  
For double-trees  $1\frac{3}{4} \times 3\frac{1}{2}$ , order No. 45 clevises.  
For double-trees  $2 \times 4$ , order No. 50 clevises.

Nos.	Weights.	Prices
45—Smith's Spring Clevises, per dozen pairs.....	78 lbs.	\$24.00
50—Smith's Spring Clevises, per dozen pairs.....	84 lbs.	24.00

Allith Manufacturing Company, Chicago, U. S. A.

Manufacturers' Standard List

## Carriage Bolts



In effect June 1, 1908

PRICE PER 100

Length in Inches	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{8}$	$\frac{1}{2}$	$\frac{9}{16}$ and $\frac{5}{8}$	$\frac{3}{4}$
1½	\$1.00	\$1.40	\$1.90	\$2.20			
1¾	1.04	1.46	1.98	2.29			
2	1.08	1.52	2.06	2.38			
2¼	1.12	1.58	2.14	2.47			
2½	1.16	1.64	2.22	2.56	\$3.00	\$5.20	\$7.20
2¾	1.20	1.70	2.30	2.65	3.11	5.37	7.43
3	1.24	1.76	2.38	2.74	3.22	5.54	7.66
3¼	1.28	1.82	2.46	2.83	3.33	5.71	7.89
3½	1.32	1.88	2.54	2.92	3.44	6.05	8.12
3¾	1.36	1.94	2.62	3.01	3.55	6.05	8.35
4	1.40	2.00	2.70	3.10	3.66	6.22	8.59
4¼	1.44	2.06	2.78	3.19	3.77	6.39	8.81
4½	1.48	2.12	2.86	3.28	3.88	6.56	9.04
4¾	1.52	2.18	2.94	3.37	3.99	6.73	9.27
5	1.56	2.24	3.02	3.46	4.10	6.90	9.50
5½	1.64	2.36	3.18	3.64	4.32	7.24	9.96
6	1.72	2.48	3.34	3.82	4.54	7.58	10.42
6½	1.80	2.60	3.50	4.00	4.76	7.92	10.89
7	1.88	2.72	3.66	4.18	4.98	8.26	11.34
7½	1.96	2.84	3.82	4.36	5.20	8.60	11.80
8	2.04	2.96	3.98	4.54	5.42	8.94	12.26
8½	2.12	3.08	4.14	4.72	5.64	9.28	12.72
9	2.20	3.20	4.30	4.90	5.86	9.62	13.18
9½	2.28	3.32	4.46	5.08	6.08	9.66	13.64
10	2.36	3.44	4.62	5.26	6.30	10.30	14.10
10½		3.56	4.78				
11	2.52	3.68	4.94	5.62	6.74	10.98	15.02
11½		3.80	5.10				
12	2.68	3.92	5.26	5.98	7.18	11.66	15.94
13	2.84	4.16	5.58	6.34	7.62	12.34	16.86
14	3.00	4.40	5.90	6.70	8.06	13.02	17.78
15	3.16	4.64	6.22	7.05	8.50	13.70	18.70
16	3.32	4.88	6.54	7.42	8.94	14.38	19.62
17	3.48	5.12	6.86	7.78	9.38	15.06	20.54
18	3.64	5.36	7.18	8.14	9.82	15.74	21.46
19	3.80	5.60	7.50	8.50	10.26	16.42	22.38
20	3.96	5.84	7.82	8.86	10.70	17.10	23.30

Although we stock and handle all such sizes as are commonly used with our products, we do not solicit general business on bolts and publish these lists principally for the convenience of the trade.

**Allith Manufacturing Company, Chicago, U. S. A.**

**Manufacturers' Standard List**

**Coach and Lag Screws**



**In effect September 15, 1908**

**PRICE PER 100**

Length in Inches	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{9}{16}$ and $\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
1½	\$2.25	\$2.70	\$3.15	\$3.75				
2	2.45	2.96	3.47	4.11	\$6.00			
2½	2.65	3.22	3.79	4.47	6.50	\$9.20		
3	2.85	3.48	4.11	4.83	7.00	9.90	\$15.00	
3½	3.05	3.74	4.43	5.19	7.50	10.60	16.00	\$22.00
4	3.25	4.00	4.75	5.55	8.00	11.30	17.00	23.30
4½	3.45	4.26	5.07	5.91	8.50	12.00	18.00	24.60
5	3.65	4.52	5.39	6.27	9.00	12.70	19.00	25.90
5½	3.85	4.78	5.71	6.63	9.50	13.40	20.00	27.20
6	4.05	5.04	6.03	6.99	10.00	14.10	21.00	28.50
6½	4.25	5.30	6.35	7.35	10.50	14.80	22.00	29.80
7	4.45	5.56	6.67	7.71	11.00	15.50	23.00	31.10
7½	4.65	5.82	6.99	8.07	11.50	16.20	24.00	32.40
8	4.85	6.08	7.31	8.43	12.00	16.90	25.00	33.70
9	5.25	6.60	7.95	9.15	13.00	18.30	27.00	36.30
10	5.65	7.12	8.59	9.87	14.00	19.70	29.00	38.90
11	6.05	7.94	9.23	10.59	15.00	21.10	31.00	41.50
12	6.45	8.16	9.87	11.31	16.00	22.50	33.00	44.10
13					17.00	23.90	35.00	46.70
14					18.00	25.30	37.00	49.30
15					19.00	26.70	39.00	51.90
16					20.00	28.10	41.00	54.50
17					21.00	29.50	43.00	57.10
18					22.00	30.90	45.00	59.70

**Expansion Shields**

Diameter of Lag Screw.....	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1
List Price per 100 for Shields only.....	\$8.50	\$9.00	\$12.00	\$16.00	\$19.80	\$25.00	\$36.00	\$48.00	\$60.00
Length of Shield—Long Standard.....	1½	2	2¾	3	3½	3¾	3¾	5	5
Length of Shield—Short Standard.....		1½	2	2	2	2	2		
Length of Shield—Extra Short Standard.....			1½		1½	1½			
Outside Diameter of Shield.....	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{7}{8}$	1	1¼	1½
Diameter of Drill Required.....	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{11}{16}$	$\frac{3}{4}$	$\frac{7}{8}$	1	1¼	1½

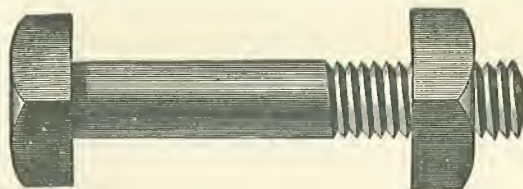
Although we stock and handle all such sizes as are commonly used with our products, we do not solicit general business on bolts and publish these lists principally for the convenience of the trade.



# Allith Manufacturing Company, Chicago, U. S. A.

## Manufacturers' Standard List

### Machine Bolts



In effect October 1, 1899

PRICE PER 100

Length in Inches	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{15}{16}$ and $\frac{1}{2}$	$\frac{3}{4}$	$\frac{7}{8}$	1	1 $\frac{1}{8}$	1 $\frac{1}{2}$
1 $\frac{1}{2}$	\$1.70	\$2.00	\$2.40	\$2.80	\$3.60	\$5.20	\$7.20	\$10.50	\$15.10	\$22.50	\$30.00
2	1.78	2.12	2.56	3.00	3.86	5.58	7.70	11.20	16.00	23.70	31.50
2 $\frac{1}{2}$	1.86	2.24	2.72	3.20	4.12	5.96	8.20	11.90	16.90	24.90	33.00
3	1.94	2.36	2.88	3.40	4.38	6.34	8.70	12.60	17.80	26.10	34.50
3 $\frac{1}{2}$	2.02	2.48	3.04	3.60	4.64	6.72	9.20	13.30	18.70	27.30	36.00
4	2.10	2.60	3.20	3.80	4.90	7.10	9.70	14.00	19.60	28.50	37.50
4 $\frac{1}{2}$	2.18	2.72	3.36	4.00	5.16	7.48	10.20	14.70	20.50	29.70	39.00
5	2.26	2.84	3.52	4.20	5.42	7.86	10.70	15.40	21.40	30.90	40.50
5 $\frac{1}{2}$	2.34	2.96	3.68	4.40	5.68	8.24	11.20	16.10	22.30	32.10	42.00
6	2.42	3.08	3.84	4.60	5.94	8.62	11.70	16.80	23.20	33.30	43.50
6 $\frac{1}{2}$	2.50	3.20	4.00	4.80	6.20	9.00	12.20	17.50	24.10	34.50	45.00
7	2.58	3.32	4.16	5.00	6.46	9.38	12.70	18.20	25.00	35.70	46.50
7 $\frac{1}{2}$	2.66	3.44	4.32	5.20	6.72	9.76	13.20	18.90	25.90	36.90	48.00
8	2.74	3.56	4.48	5.40	6.98	10.14	13.70	19.60	26.80	38.10	49.50
9	2.90	3.80	4.80	5.80	7.50	10.90	14.70	21.00	28.60	40.50	52.50
10	3.06	4.04	5.12	6.20	8.02	11.66	15.70	22.40	30.40	42.90	55.50
11	3.22	4.28	5.44	6.60	8.54	12.42	16.70	23.80	32.20	45.30	58.50
12	3.38	4.52	5.76	7.00	9.06	13.18	17.70	25.20	34.00	47.70	61.50
13			6.08	7.40	9.58	13.94	18.70	26.60	35.80	50.10	64.50
14			6.40	7.80	10.10	14.70	19.70	28.00	37.60	52.50	67.50
15			6.72	8.20	10.62	15.46	20.70	29.40	39.40	54.90	70.50
16			7.04	8.60	11.14	16.22	21.70	30.80	41.20	57.30	73.50
17					11.66	16.98	22.70	32.20	43.00	59.70	76.50
18					12.18	17.74	23.70	33.60	44.80	62.10	79.50
19					12.70	18.50	24.70	35.00	46.60	64.50	82.50
20					13.22	19.26	25.70	36.40	48.40	66.90	85.50
21						20.02	26.70	37.80	50.20	69.30	88.50
22						20.78	27.70	39.20	52.00	71.70	91.50
23						21.54	28.70	40.60	53.80	74.10	94.50
24						22.30	29.70	42.00	55.60	76.50	97.50
25							30.70	43.40	57.40	78.90	100.50
26							31.70	44.80	59.20	81.30	103.50
27							32.70	46.20	61.00	83.70	106.50
28							33.70	47.60	62.80	86.10	109.50
29							34.70	49.00	64.60	88.50	112.50
30							35.70	50.40	66.40	90.90	115.50
31							36.70	51.80	68.20	93.30	118.50
32							37.70	53.20	70.00	95.70	121.50
33							38.70	54.60	71.80	98.10	124.50
34							39.70	56.00	73.60	100.50	127.50
35							40.70	57.40	75.40	102.90	130.50
36							41.70	58.80	77.20	105.30	133.50
37							42.70	60.20	79.00	107.70	136.50
38							43.70	61.60	80.80	110.10	139.50
39							44.70	63.00	82.60	112.50	142.50
40							45.70	64.40	84.40	114.90	145.50

Although we stock and handle all such sizes as are commonly used with our products, we do not solicit general business on bolts and publish these lists principally for the convenience of the trade.



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